

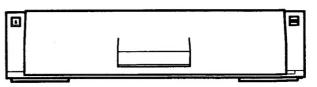
GoldStar

B WHS DOUBLE DECK

VIDEO CASSETTE RECORDER SERVICE MANUAL

CAUTION

BEFORE SERVICING THE CHASSIS, READ THE "SAFETY PRECAUTIONS" IN THIS MANUAL



MODEL: R-DD15PQ



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SECTION1 SUMMARY

KEY TO ABBREVIATIONS

Α	AC	: Alternating Current			_
^	ACC	: Automatic Color Control	L	ĹD	: Low, Left, Coil : LED
	ADJ	: Adjust		LECHA	: Letter Character
	A/E	: Audio Erase		LP	: Long Play
	AFC	: Automatic Frequency Control		LPF	: Low Pass Filter
	AFT	: Automatic Fine Tuning			
	AGC	: Automatic Gain Control	М	MAX	: Maximum
	ALC	: Automatic Level Control		MD	: Modulator
	AM	: Amplitude Modulation		MIC	: Microphone
	AMP	: Amplifier		MIN	: Minimum
	ANT	: Antenna		MIX	: Mixer, Mixing
	APC.	: Automatic Phase Control		M.M.	: Mono Multi Vibrator
	ASS'Y	: Assembly		MMV	: Monostable Multivibrator
	AUD	: Audio		MOD	: Modulation, Modulator
	AUTO	: Automatic		MODEM	: Modulator-Demodulator
	AUX	: Auxiliary	N	NR	: Noise Reduction
_				OSC	: Oscillator
В	B	: Base	J	OSD	: On Screen Display
,	BPF	Bandpass Filter	_		
	BW or B/W	: Black and White	Р	PB	: Playback
С	С	: Capacitor, Chroma, Collector		PCB	: Printed Circuit Board
	CAN	: Cancel		PG	: Pulse Generator
	CAP	: Capstan		PLL	: Phase Locked Loop
	CATV	: Cable Television		P-P	: Peak-to-Peak
	CBA	: Circuit Board Assembly		PRE-AMP	: Preamplifier
	CCD	: Charge Coupled Device		PS	: Phase Shift
	CFG	: Capstan Frequency Generator		PWM	: Pulse Width Modulation
	CH	: Channel	Q	a	: Transistor
	CHROMA .	: Chrominance	-	ФH	: Quasi Horizontal
	CLK	: Clock		QSR	: Quick Setting Record
	CNR	: Chroma Noise Reduction		QTR	: Quick Timer Record
	COMB	: Combination		QV	: Quasi Vertical
		Comb Filter	R	R	
	COMP	: Comparator	n	RE(or RC)	: Resistor, Right
		Composite		REC	: Remocon, Receiver
		Compensation			: Recording
	CONV	: Converter		REF	: Reference
	CS	: Chip Select		REG	: Regulated, Regulator
	CST	: Cassette		REMOCON	: Remote Control(unit)
	CTL	: Control		REV	Reverse
	CUR	: Current		REW	: Rewind
	CYL	: Cylinder		RF	: Radio Frequency
D	D	: Drum, Digital, Diode, Drain		R/P	: Record / Playback
U	dB	: Decibel		RTC	: Real Time Counter
	DC	: Direct Current	S	S	: Senal
	DEMOD	Demodulator		SH	: Shift
	DET	: Detector		SHARP	: Sharpness
	DEV	Deviation		SIF	: Sound Intermediate Frequency
	DHP	: Double High Pass		SLD	: Side Locking
				S/N	: Signal to Noise Ratio
	DIGITRON	: Digital Display Tube		SP	: Standard Play
	DL	: Delay Line		SUB	: Subtract, Subcarrier
	DOC	: Drop Out Compensator		SW or S/W	: Switch
	D/V	: Dummy Vertical		SYNC	: Synchrorization
E	E	: Emitter		SYSCON	: System Control
	EE	: Electric to Electric	τ	T	: Coil
	EMP	: Emphasis	•	TP	: Test Point
	EP	: Extended Play		TR	Transistor
	EQ	: Equalizer		TRK	Tracking
	ES	: Electrostatically Sensitive		TRANS	Transformer
F	F	: Fuse		TU	: Tuner, Take-Up
•	FB	: Feed Back			
	FBC	: Feed Back Clamp	U	UHF	: Ultra High Frequency
	FE	: Full Erase		UNREG	Unregulated
	FF	: Fast Forward	V	V	: Volt, Vertical
	FG	: Frequency Generator		VA	Always Voltage
	FL	: Filter		vco	: Voltage Controlled Oscillator
	FM	: Frequency Modulation		VGC	: Voltage Gain Control
	F/R	: Front/Rear		VHF	: Very High Frequency
	FS	: Frequency Synthesizer		VISS	: VHS Index Search
	FSC	: Subcarrier Frequency		VR	: Variable Resistor or Volume
	F/V	: Frequency Voltage		V-Sync	: Vertical Synchronization
	FWD	: Forward		VTG	: Voltage
				W	: Voltage to Voltage
_	GEN	: Generator		VXO	: Voltage X-tal Oscillator
G		: Ground	w	W	
G	GND			WHT	: Watt
		: High, Horizontal			: White
G H	н	: High, Horizontal : Hertz			. Mich Oue
н	H Hz	: Hertz		W/0	: With Out
	H Hz IC	: Hertz : Intergrated Circuit	x		: With Out : Crystal
н	H Hz IC IF	: Hertz : Intergrated Circuit : Intermediate Frequency		W/O X-TAL	: Crystal
н	H Hz IC IF INS	: Hertz : Intergrated Circuit : Intermediate Frequency : Insert	×	W/O X-TAL Y/C	: Crystal : Luminance/Chrominance
н	H Hz IC IF	: Hertz : Intergrated Circuit : Intermediate Frequency		W/O X-TAL	: Crystal

IMPORTANT SAFETY PRECAUTIONS

Prior to shipment from the factory, the products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

Precautions during Servicing

- 1. Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.
- 2. Parts identified by the A symbol and shaded () parts are critical for safety. Replace only with specified part numbers.

Note: Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

- 3. Use Specified internal wiring. Note especially:
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
- Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation Tape
 - 2) PVC tubing
 - 3) Spacers
 - 4) Insulation sheets for transistor
- When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.(Fig. 1)
- Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)
- 7. Check that replaced wires do not contact sharp edged or pointed parts.
- When a power cord has been replaced, check that 10-15Kg of force in any direction will not loosen it.(Fig. 2)
- 9. Also check areas surrounding repaired locations.

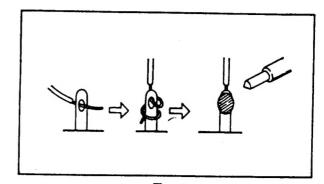


Fig. 1

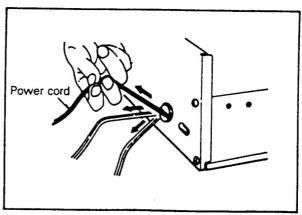


Fig. 2

10 Products using cathode ray tubes (CRTs)

In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission. Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the parts specified. Under no circumstances attempt to modify these circuits. Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

SAFETY CHECK AFTER SERVICING

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions. Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

Insulation resistance test

Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table below.

Dielectric strength test

Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts

of the set(RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table below.

Clearance distance

When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table below.

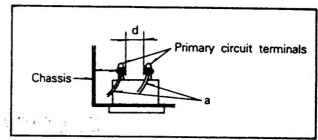


Fig. 3

Table 1:Ratings for selected areas

AC Line Voltage	Region	Insulation Resistance	Dielectric Strength	Clearance Distance(d),(d)
*110 to 130 V 200 to 240 V	Europe Australia	≧10 MΩ/500 V DC	4kV 1 minute	≧6mm(d) ≥8mm(d) (a Power cord)

^{*}Class II model only.

Note. This table is unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

Leakage Current test

Confirm specified or lower leakage current between B(earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.)

Measuring Method: (Power ON)

Insert load Z between B(earth ground, power cord plug prongs) and exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure and following table.

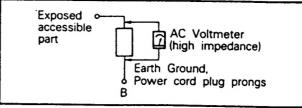


Fig. 4

Table 2:Leakage current ratings for selected areas

AC Line Voltage	Region	Load Z	Leakage Current(i)	Earth Ground (B) to:
100 to 130 V	Europe	•—- ₩ ∘ 2kΩ	i≦0.7m A peak i≤2m A dc	Antenna earth terminals
200 to 240 V	Australia	•—	i≤0.7m A peak i≤2m A dc	Other terminals

Note. This table is unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

INTRODUCTION

This service manual provides a variety of service information. It contains the mechanical structure of the Double Deck Video Cassette Recorder together with mechanical adjustments and the electronic circuits in

schematic form. This Double Deck VCR was manufactured and assembled under our strict quality control standards and meets or exceeds industry specifications and standards.

FEATURES

- the VHS and 8 mm system with HQ-picture technology for extraordinary picture-sharpness and high resolution.
- · the digital tracking automatic which makes the enjoying manual control obsolete.
- · automatic power and playback.

General Power supply:

- · four VHS video heads for a clear still image and a variable slow motion.
- three 8 mm video heads for 8 mm playback only.
- · assemble editing from 8 mm tape to VHS tape.
- · the easy searching of your recordings by automatic and manual index marking, that can also be erased.
- · the quick mechanism for fast tape function transitions.
- · the long play VHS recording and playback facility.
- · the real time tape counter and the VHS remaining tape

time display.

AC 230V(± 10%), 50Hz

- · 8 timer programme memories, also for daily or weekly recurring recordings, within one year can be programmed at the same time.
- · the on-screen display of many functions e.g. the stored timer programmes.
- and many more, like additional audio and video input at the front, Euro-AV sockets, audio dubbing, child lock, immediate recording timer, and title generator.
- SHOWVIEW: Optional Function ShowView is a trademark applied for by Gemstar Development Corp.

ShowView system is manufactured under license from Gemstar Development Corporations.

SPECIFICATIONS

Power consumption: Approx. 45W Cabinet size($W \times H \times D$): 430×99×390mm Weight: Approx. 8Kg Operating temperature: 5° C to 35° C surrounding temperature Operating humidity: 35-80% 8 mm Player section Format: 8 mm PAL Standard Heads: 3 video heads Tape speed: (SP) 20.05 mm/sec. (LP) 10.025 mm/sec. Tape width: 8 mm Video output: 1 Vpp 75 ohm unbalanced Audio output: 500 mV, <1 kohm VHS Recorder section Format: VHS PAL Standard Heads: 4 video heads Tape speed: (SP) 23.39 mm/sec. (LP) 11.635 mm/sec. Tape width: 12.7 mm Video: PAL B/G Recording/playback time: with E-300 Aerial input: PAL: VHF 2-12 UHF 21-69 **CATV S1-S40** RF output: Video input: Video output: S/N ratio (video): 45dB nominal Audio input: 500 mV, >50 kohm Audio output : 500 mV, <1 kohm S/N ratio (audio):

300 min. (LP: 600 min.) UHF channels 32~40 (Variable) 1 Vpp 75 ohm unbalanced 1 Vpp 75 ohm unbalanced

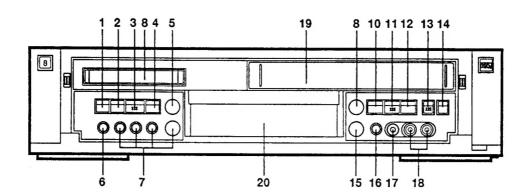
45 dB nominal 63-12,500 Hz nominal

Audio frequency range:

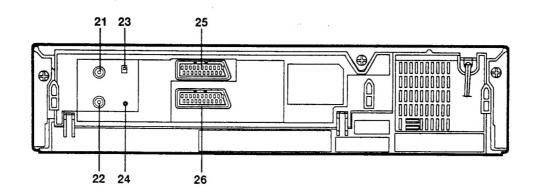
Designs and specifications are subject to change without notice.

LOCATION OF CUSTOMER CONTROLS

FRONT



REAR



8 mm Player section

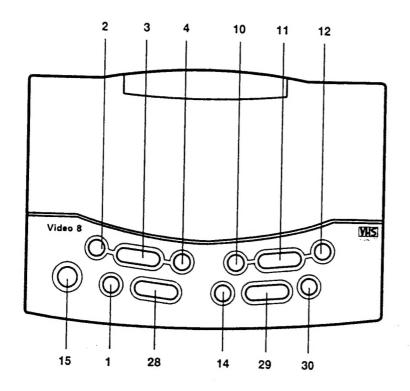
- 1. STILL BUTTON
- 2. REWIND/REVIEW BUTTON
- 3. PLAY BUTTON
- 4. FAST FORWARD/CUE BUTTON

VHS Recorder section

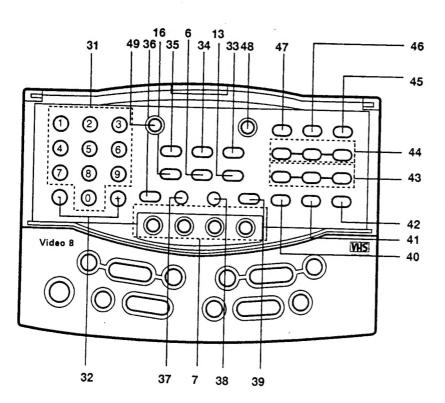
- 9. STOP/EJECT BUTTON
- 10. REWIND/REVIEW BUTTON
- 11. PLAY BUTTON
- 12. FAST FORWARD/CUE BUTTON
- 13. REC/QSR BUTTON
- 14. P/STILL BUTTON
- 15. OPERATE ON/OFF BUTTON
- 16. AUDIO DUBBING BUTTON
- 17. MIC IN JACK

- 5. STOP/EJECT BUTTON
- 6. V.INSERT BUTTON
- 7. ASSEMBLE EDITING BUTTONS
- 8. CASSETTE COMPARTMENT
- 18. AUDIO/VIDEO IN JACKS
- 19. CASSETTE COMPARTMENT
- 20. VCR DISPLAY
- 21. AERIAL INPUT SOCKET
- 22. RF OUT SOCKET
- 23. TPSG ON/OFF SWITCH
- 24. VIDEO CHANNEL CONTROL
- 25. EURO-AV 1 SOCKET
- 26. EURO-AV 2 SOCKET

REMOTE CONTROL



- 1. STILL BUTTON
- 2. REWIND/REVIEW BUTTON
- 3. PLAY BUTTON
- 4. FAST FORWARD/CUE BUTTON
- 6. VIDEO DUBBING BUTTON
- 7. ASSEMBLE EDITING BUTTONS
- 10. REWIND/REVIEW BUTTON
- 11. PLAY BUTTON
- 12. FAST FORWARD/CUE BUTTON
- 13. REC/QSR BUTTON
- 14. P/STILL BUTTON
- 15. OPERATE ON/OFF BUTTON
- 16. AUDIO DUBBING BUTTON
- 28. STOP BUTTON
- 29. STOP BUTTON
- 30. FRAME ADVANCE BUTTON
- 31. NUMBER BUTTONS
- 32. PROG/TRK BUTTONS (+/-)
- 33. TAPE SPEED BUTTON
- 34. TU/AV BUTTON
- 35. MIC MIX BUTTON
- 36. AUTO TRACKING BUTTON
- 37. 8 mm RESET BUTTON
- 38. VHS RESET BUTTON

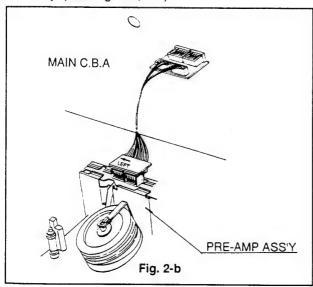


- 39. REST BUTTON
- **40. MENU BUTTON**
- 41. DISPLAY/PG. OUT BUTTON
- 42. CLEAR/PG. CLR BUTTON
- 43. SLOW/MFT BUTTONS
- 44. VISS BUTTONS
- 45. CHILD LOCK BUTTON
- 46. TV/VCR BUTTON
- 47. VPS BUTTON: *
- 48. SHOWVIEW BUTTON: *
- 49. MONITOR BUTTON
- * * : Optional Function

SECTION 2 CABINET & MAIN FRAME SERVICE FIXTURE CONNECTING METHOD

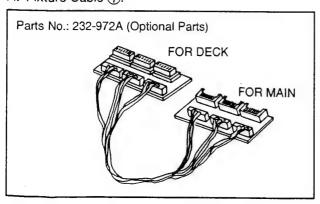
1. SVC FIXTURE Connecting Method

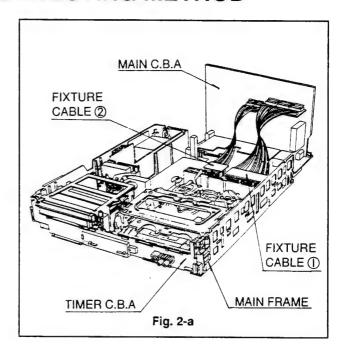
- A. FIXTURE Cable (1) Connecting Method.
- a) Connect the FIXTURE Cable (1) between Main C. B.A and Junction C.B.A. (P2J01, P2J02, P2J03)
- b) At this time, should be in the left side " ← LEFT" mark on the P.C.B of the FIXTURE Cable ①. (See Fig. 2-a, 2-c)
- c) Connect the connector of "MAIN" mark of FIXTURE Cable ① with the Main C.B.A and the connector of "JUNCTION" mark with the Junction C.B.A. (See Fig. 2-a, 2-c)
- B. FIXTURE Cable ② Connecting Method.
- a) Connect the FIXTURE Cable ② between Main C.
 B.A and Pre-Amp Ass'y. (P3P01=P9301, P3P02=P9302)
- b) At this time, should be in the left side " ← LEFT" mark on the P.C.B of the FIXTURE Cable ②. (See Fig 2-a, 2-b)
- c) Connect the connector of "MAIN" mark of FIXTURE Cable ② with the Main C.B.A and the connector of "JUNCTION" mark with the Pre-Amp Ass'y. (See Fig. 2-a, 2-b)

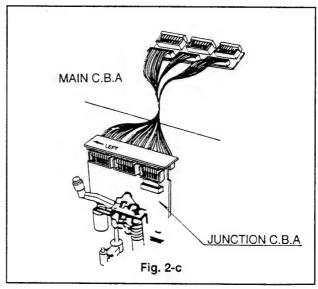


2. Electrical Service Fixture List

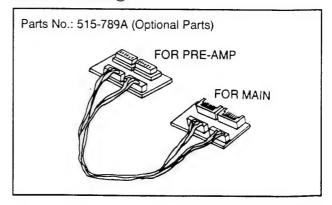
A. Fixture Cable (1).







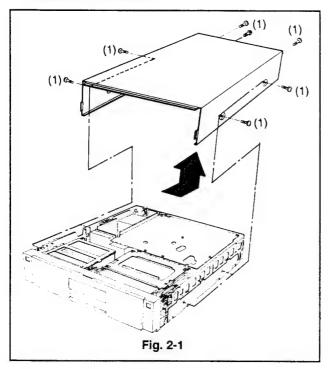
B. Fixture Cable (2).



CABINET DISASSEMBLY

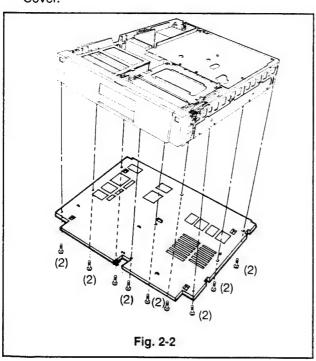
1. Top Case

- A. Release 7 screws (1).
- B. Hold the back of Top Case and lift it up slightly backward to remove it.



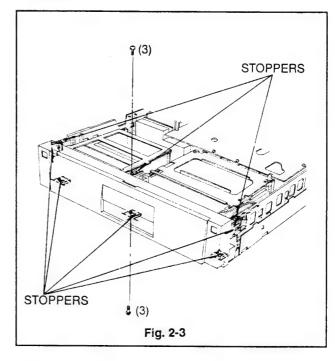
2. Bottom Cover

A. Release 9 screws (2) to remove the Bottom Cover.



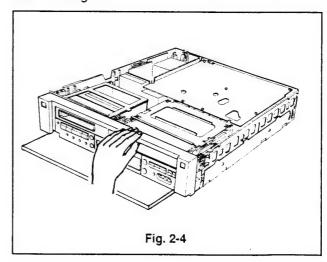
3. Front Panel

- A. Release 2 screws (3).
- B. Remove the stoppers on the top of Front Panel.
- C. Remove the stoppers on the bottom side Front Panel.



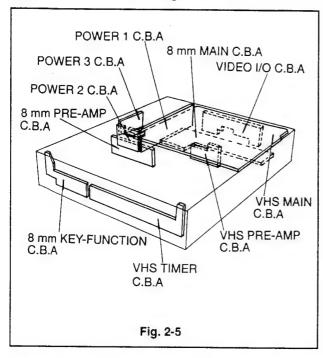
* Caution

When reassemble the Front panel, assemble it in condition of inserting the Door Cassette inside, as shown in Fig.2-4



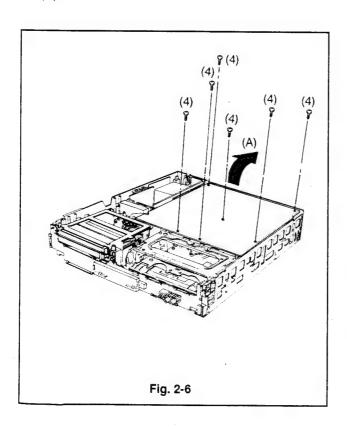
CIRCUIT BOARD DISASSEMBLY

1. Circuit Board Arrangement



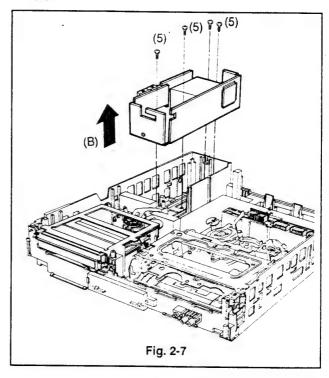
2. VHS Main Circuit Board

- A. Release 6 screws (4).
- B. Remove the Main C.B.A in the direction of arrow (A).



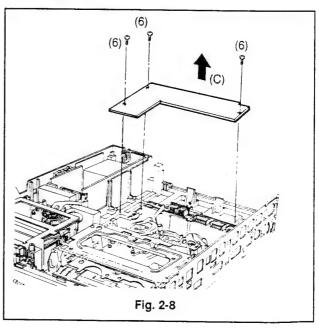
3. Power 1, 2, 3 Circuit Board

- A. Remove the Bottom Cover. (Fig. 2-2)
- B. Release 4 screws (5).
- C. Remove the Power C.B.A in the direction of arrow (B).



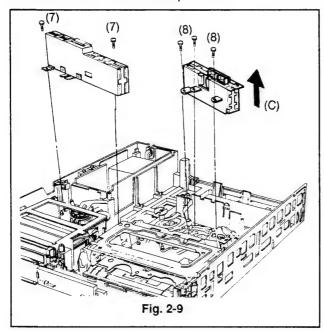
4. 8mm Main Circuit Board

- A. Release 3 screws (6).
- B. Remove the 8mm Main C.B.A in the direction arrow (C).



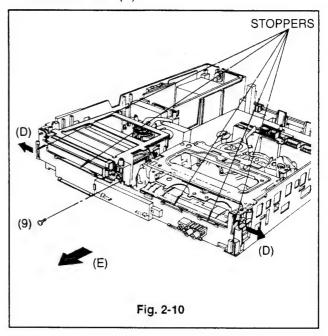
5. 8mm/VHS Pre-Amp Circuit Board

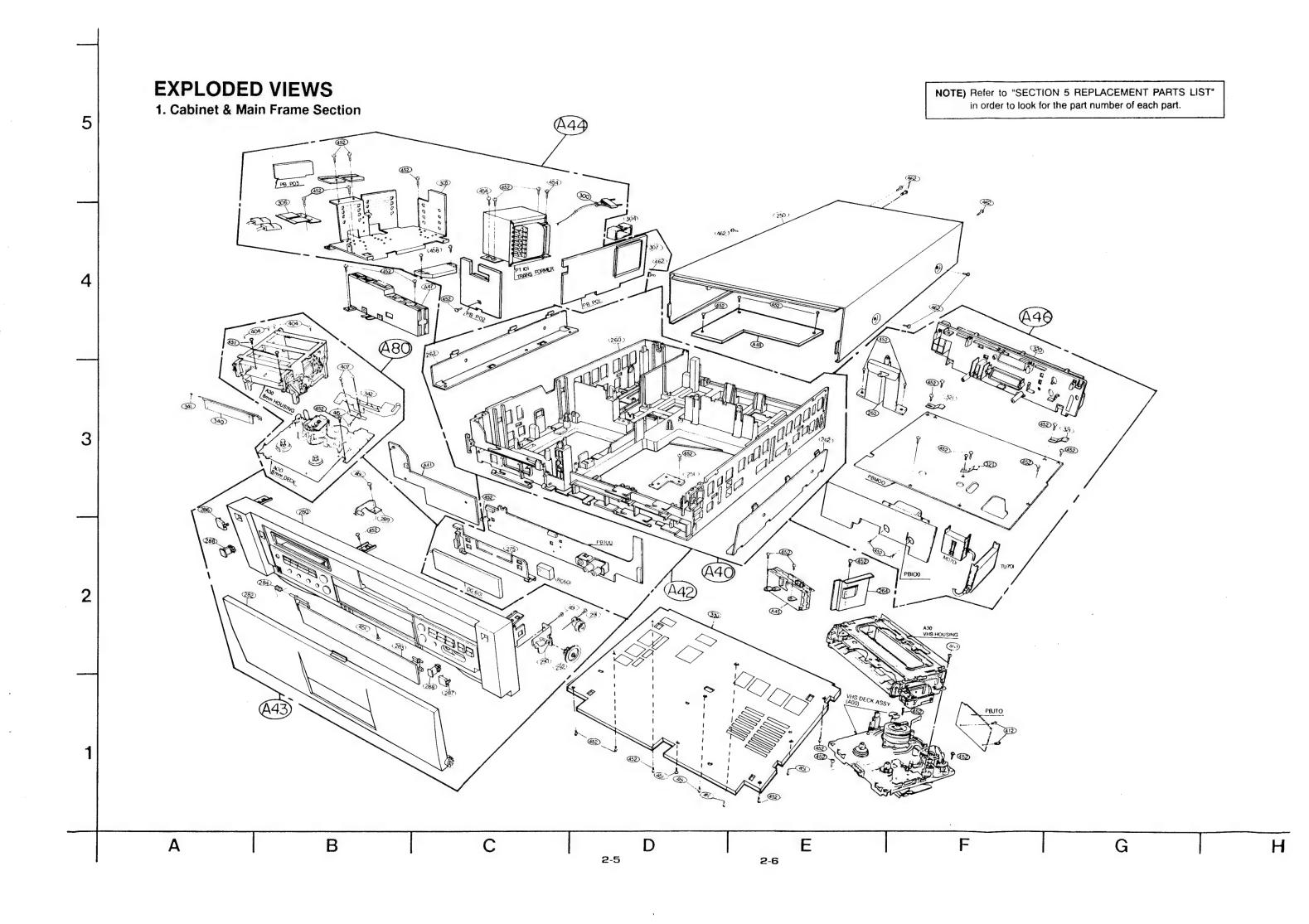
- A. Release 2 screws (7). B. Remove the 8mm Pre-Amp C.B.A.
- C. Release 3 screws (8).
- D. Remove the VHS Pre-Amp C.B.A.



6. 8 mm/VHS Key Function Circuit Board

- A. Release screw (9).
- B. Release 5 stoppers in the direction arrow (D).C. Remove the 8mm/VHS Key Function C.B.A in the direction arrow (E).

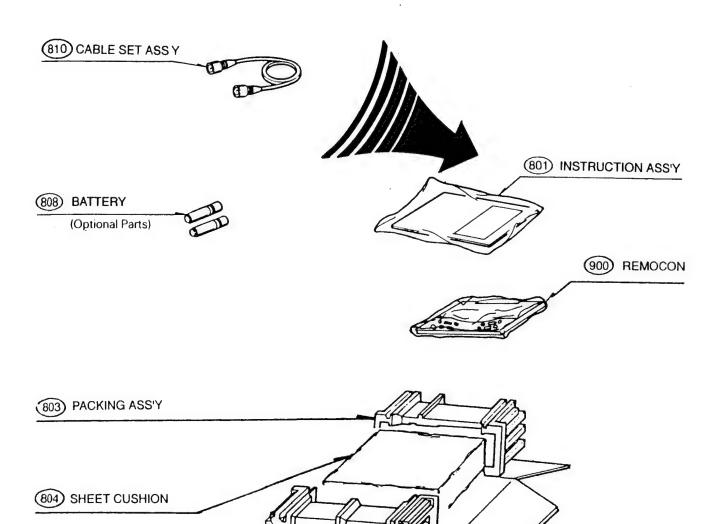




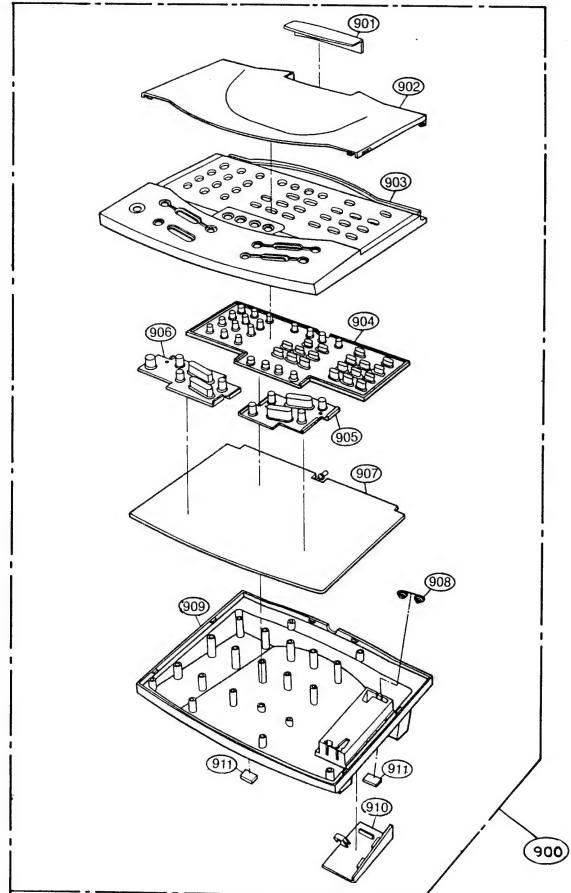
2. Packing Accessory Section

802 BOX CARTON

NOTE) Refer to "SECTION 5 REPLACEMENT PARTS LIST" in order to look for the part number of each part.



3. Remote Control Section



SECTION 3 ELECTRICAL

ELECTRICAL ADJUSTMENT PROCEDURES

Electronic Test Equipment Requirement

- Oscilloscope
- · Video signal Generator
- Modem Tester
- · Level Meter
- Frequency Counter
- Power Supply

- Monitor Scope
- · + Driver
- Test Tape (SP)-PAL (VHS, 8mm)
- · Recording Tape (VHS)
- Digital Multimeter

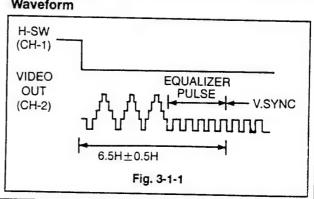
1. VHS Circuit Adjustment

1-1. Servo Circuit

1-1-1. PG Adjustment

MODE	SPECIFICATION	MEASUREMENT POINT	ADJUSTMENT POINT
PLAYBACK	6.5H±0.5H (1H=64.0µsec)	TP201 (H.SW) TP202 (V.Out terminal)	VR201
Procedure:		Waveform	

- a. Playback a VHS PAL SP test tape.
- b. Connect CH-1 of oscilloscope to TP201 (H.SW) and CH-2 to TP202 (Video Out terminal).
- c. Trigger the complex Video signal to CH-1 H.SW, and adjust VR201 so that the distance from switching point of H.SW signal to the starting point of horizontal synchronized signal is 6.5H±0.5H (416±32µsec)



1-2. Y/C Circuit

1-2-1. EE Level Adjustment

MODE.	SPECIFICATION	MEASUREMENT POINT	AD III CTATATA
	S. Zon Joan on	MEASUREMENT POINT	ADJUSTMENT POINT
STOP	2.0±0.1Vp-p	TP202	VR304
Procedure:		Waveform	
terminal.	signal Generator to Videnal to Video in terminal.	o in	T

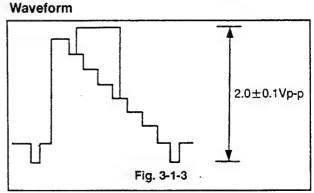
c. Connect CH-1 of oscilloscope to TP202.
d. Adjust VR304 so that the value from the lower part of synchronism to 100% white signal is 2.0 ±0.1Vp-p.

1-2-2. Playback Luminance Level Adjustment

MODE	SPECIFICATION	MEASUREMENT POINT	ADJUSTMENT POINT
PLAYBACK (SP)	2.0±0.1Vp-p	TP202	VR305
Dropoduro		Wayafarm	

Procedure:

- a. Connect CH-1 of oscilloscope to TP202.
- b. Playback a VHS PAL SP test tape (with 100% white signal).
- c. Adjust VR305 so that the value from the lower part of synchronism to 100% white signal is 2.0 $\pm 0.1 \text{Vp-p}$.

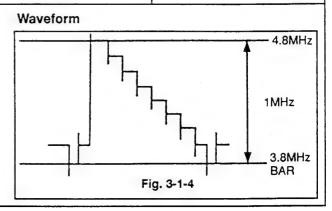


1-2-3. FM Carrier Frequency Adjustment

MODE	SPECIFICATION	MEASUREMENT POINT	ADJUSTMENT POINT
RECORD LINE mode	3.8MHz±0.05MHz at SYNC Tip	TP301 (CAR/DEV TP)	VR303

Procedure:

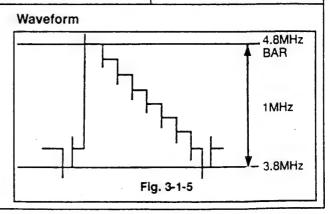
- a. Input Color Bar signal (with 100% white signal) to Video in terminal (Scart Jack).
- b. Connect In terminal of Modern Tester to TP301.
- c. Connect Out terminal of Modem Tester to CH-1 of oscilloscope (But the set and the Modem Tester should be connected with 10:1 probe).
- d. The terminal position of Modem Tester is operated to be ATT.0dB, PAL/SECAM mode, Demod, Marker on.
- e. Adjust VR303 so that SYNC Tip of video signal is agreed with 3.8MHz Marker on scope.



1-2-4. FM Deviation Frequency Adjustment

MODE	SPECIFICATION	MEASUREMENT POINT	ADJUSTMENT POINT
RECORD LINE mode	4.8MHz±0.05MHz at White Peak	TP301 (CAR/DEV TP)	VR301

- a. Input Color Bar signal (with 100% white signal) to Video in terminal (Scart Jack).
- b. Connect In terminal of Modern Tester to TP301.
- c. Connect Out terminal of Modem Tester to CH-1 of oscilloscope (But the set and the Modem Tester should be connected with 10:1 probe).
- d. The terminal position of Modern Tester is operated to be ATT.0dB, PAL/SECAM mode, Demod, Marker on.
- e. Adjust VR301 so that 100% white peak of video signal is agreed with 4.8MHz Marker on scope.

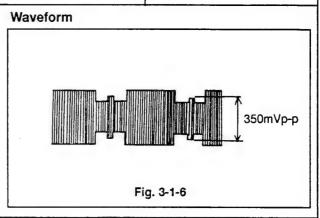


1-2-5. Recording Luminance Level Adjustment

MODE	SPECIFICATION	MEASUREMENT POINT	ADJUSTMENT POINT
RECORD LINE mode	350mVp-p	TP302 (REC-Y)	VR302

Procedure:

- a. Input Color Bar signal (with 100% white signal) to Video in terminal (Scart Jack).
- b. Connect CH-1 of oscilloscope to TP202.
- c. Connect CH-2 of oscilloscope to TP302.
- d. Record the SP mode.
- e. Adjust VR302 so that the waveform is 350mVp-p.



1-3. Audio Circuit

1-3-1. Record Bias Adjustment

MODE	SPECIFICATION	MEASUREMENT POINT	ADJUSTMENT POINT
RECORD (SP)	2.6±0.05mVrms	R436 Both Terminal	VR401

- a. Loading the recording tape and record.
- b. Connect (+), (-) terminal of Level Meter to both terminals R436.
- c. Adjust VR401 so that the oscillation voltage fit to specification.

1-4. Tuner/IF Circuit

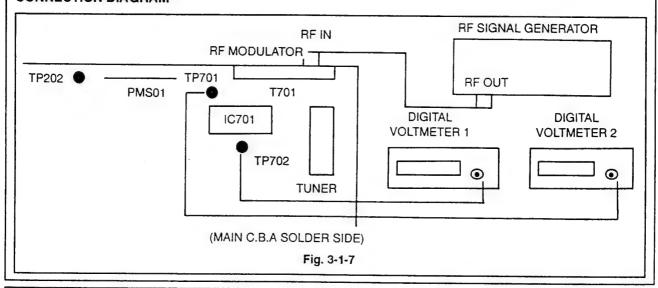
1-4-1. VIF Adjustment

MODE	SPECIFICATION	MEASUREMENT POINT	ADJUSTMENT POINT
EE	2.5V±0.1V	TP702	T701

Procedure:

- a. Connect as shown in Fig. 3-1-7.
- b. Receive the CH-11 (217.25MHz).
- c. Adjust T701 so that the Digital voltmeter 1 is 2.5 ± 0.1 V.

CONNECTION DIAGRAM



*Caution in testing

- 1. When practing this adjustment, adjust after more than 10minutes with TV set turning on.
- 2. Adjust after completing itself test of measuring apparatus.
- 3. Sweep OSC marker frequency is followed by Table 1.

*Abbreviation

- APC : Adjacent Picture Carrier
- SIF : Sound Intermediate Frequency
- · CIF : Color Intermediate Frequency
- CEN: Center Frequency
- PIF : Picture Intermediate Frequency
- ASC: Adjacent Sound Carrier

Table 1 Frequency Table

(MHz)

BROADCASTING	ADJUSTMENT MARKER FREQUENCY					
SYSTEM	APC	SIF	CIF	CEN	PIF	ASC
PAL B/G+SECAM L	31.90	33.40	34.47	36.00	38.90	40.40

1-4-2. RF AGC Adjustment

MODE	SPECIFICATION	MEASUREMENT POINT	ADJUSTMENT POINT
EE	4.7 ÷0.1V	TP701	VR701

- a. Connect as shown in Fig. 3-1-7.
- b. Receive the CH-11(217.25MHz, strength of input electric field : $70dB\mu V$).
- c. Adjust VR701 so that the Digital voltmeter 2 is $4.7_{-0}^{+0.1}$ V.

2. 8mm Circuit Adjustment

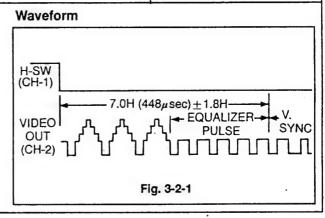
2-1. Servo Circuit

2-1-1. PG Adjustment

	MODE	SPECIFICATION	MEASUREMENT POINT	ADJUSTMENT POINT
PL	_AYBACK	7H±1.8H (1H=64.0⊭sec)	TP4K1 (H.SW) TP3A1 (V.Out terminal)	VR501

Procedure:

- a. Playback a 8mm PAL SP test tape.
- b. Connect CH-1 of oscilloscope to TP4K1 (H.SW) and CH-2 to TP3A1 (Video Out terminal)
- c. Trigger the complex Video signal to CH-1 H.SW, and adjust VR501 so that the distance from switching point of H.SW signal to the starting point of horizontal synchronized signal is 7H±1.8H (448±115.2µsec).

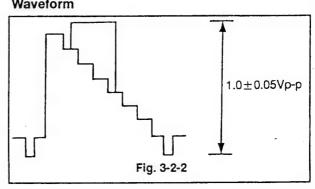


2-2. Y/C Circuit

2-2-1. Playback Output Level Adjustment

MODE	SPECIFICATION	MEASUREMENT POINT	ADJUSTMENT POINT
PLAYBACK (SP)	1.0±0.05Vp-p	TP3A1	VR3A1
Procedure :		Waveform	

- a. Connect CH-1 of oscilloscope to TP3A1.
- b. Playback a 8mm PAL SP test tape (Color bar with 100% white signal).
- c. Adjust VR3A1 so that Video out level is 1.0 ± 0.05 Vp-p.



2-2-2. Color VCO Adjustment

MODE	SPECIFICATION	MEASUREMENT POINT	ADJUSTMENT POINT
PLAYBACK (SP)	DC2.5±0.1Vp-p	TP3A2	FL3A2

- a. Connect CH-1 of oscilloscope to TP3A2.
- b. Playback a 8mm PAL SP test tape (Color bar with 100% white signal).
- c. Adjust FL3A2 so that DC level is 2.5 ± 0.1 Vp-p.

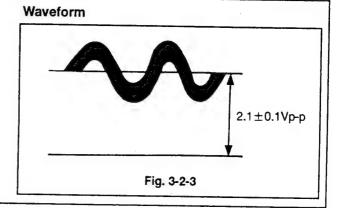
2-3. Audio Circuit

2-3-1. FM VCO Adjustment

MODE	SPECIFICATION	MEASUREMENT POINT	ADJUSTMENT POINT
PLAYBACK (SP)	DC2.1±0.1Vp-p	TP4A2	VR4A2

Procedure:

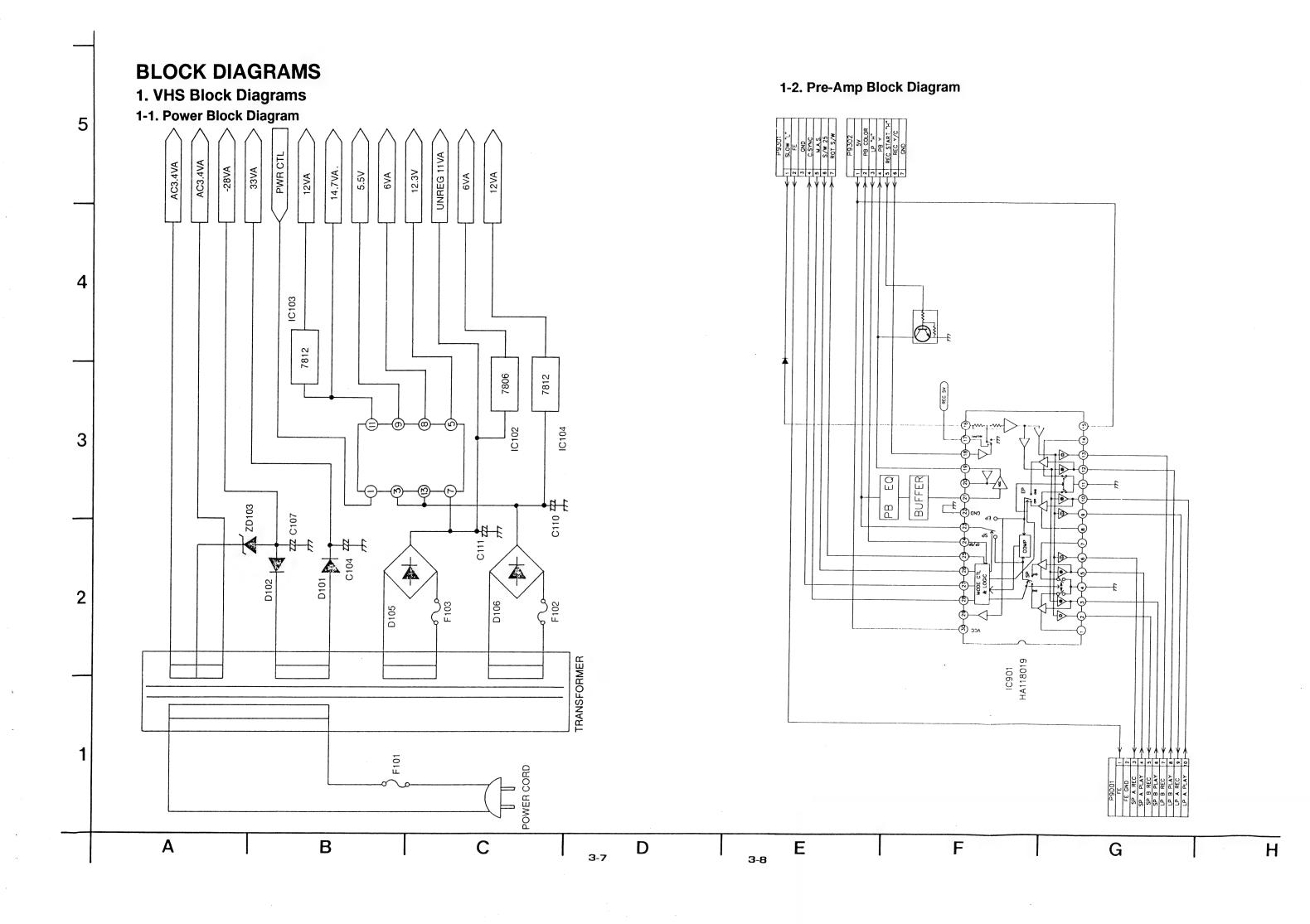
- a. Connect CH-1 of oscilloscope to TP4A2.
- b. Playback a 8mm PAL SP test tape (with 400Hz Audio signal).
- c. Adjust VR4A2 so that Center Voltage is DC2.1 ± 0.1 Vp-p.

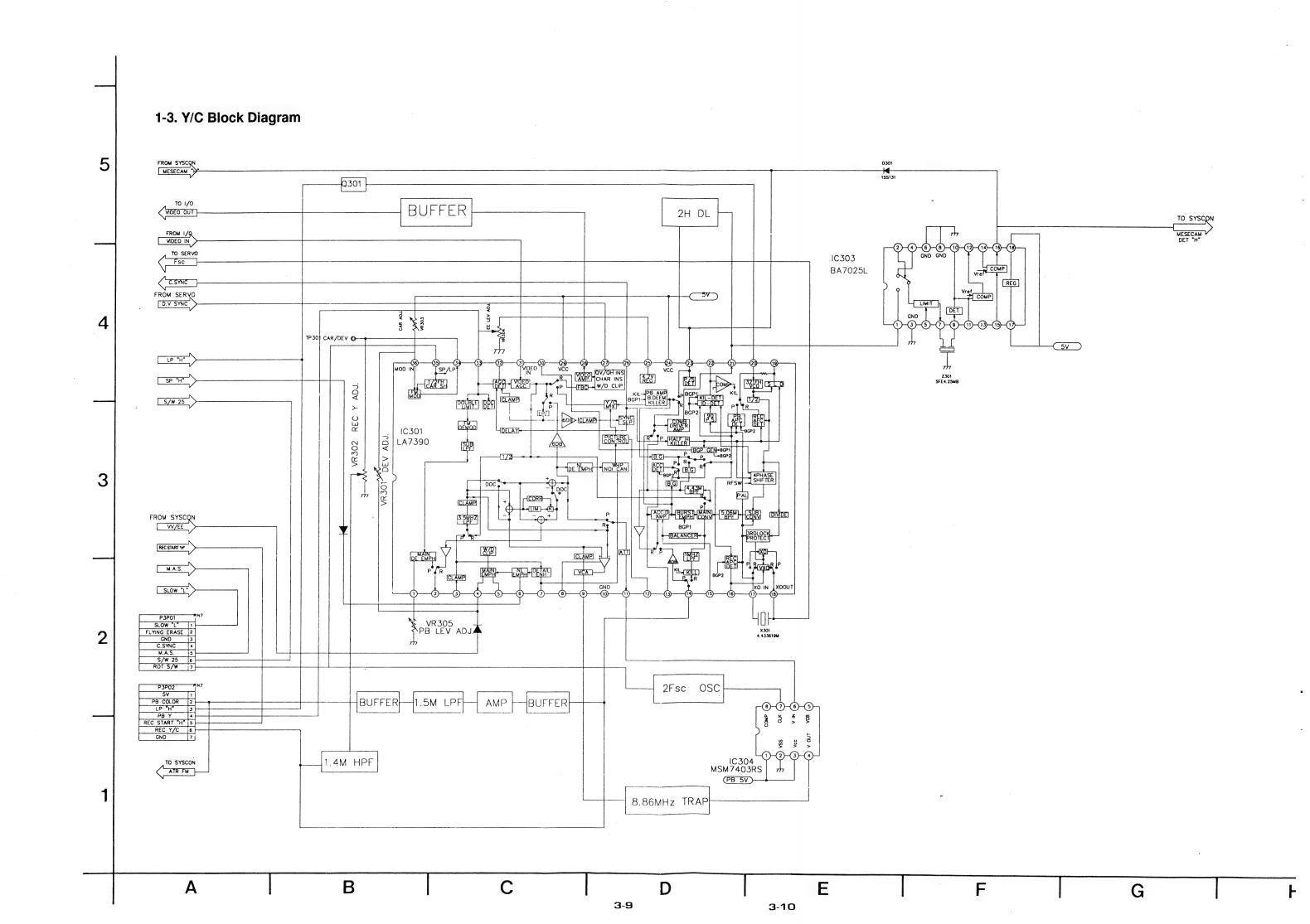


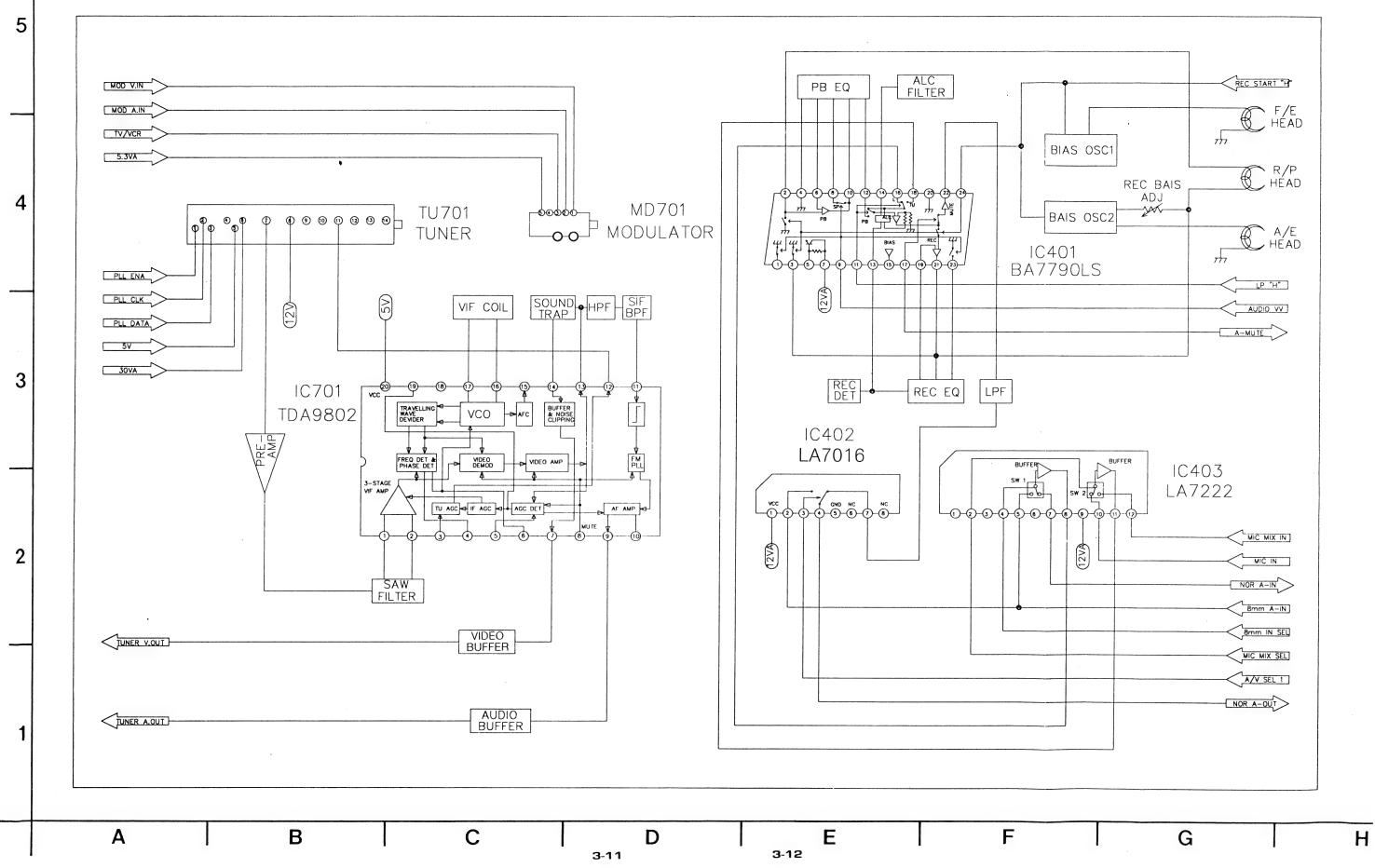
2-3-2. FM Deviation Adjustment

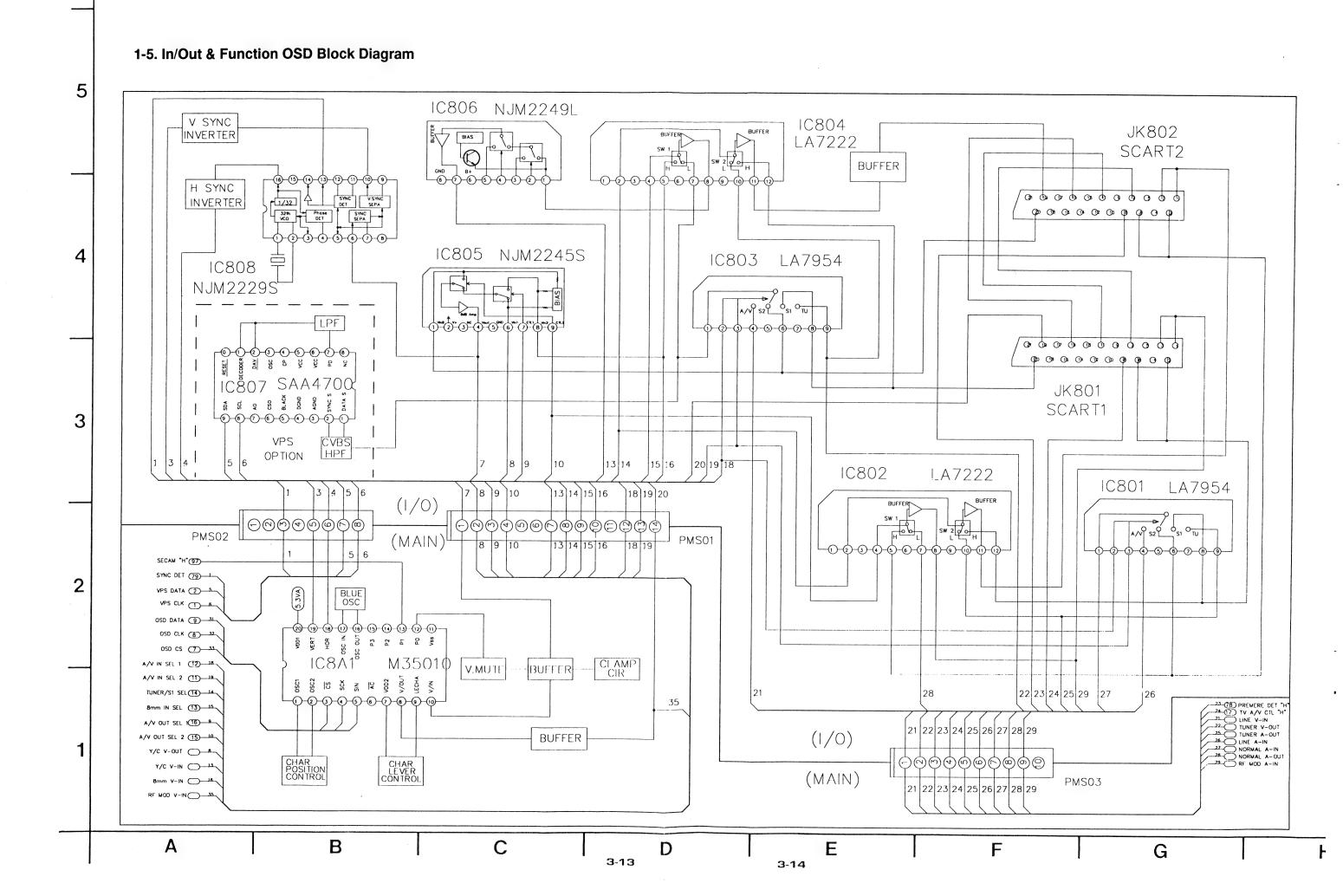
MODE	SPECIFICATION	MEASUREMENT POINT	ADJUSTMENT POINT
PLAYBACK (SP)	6±0.5dBm	TP4A1 (Audio Out terminal)	VR4A1

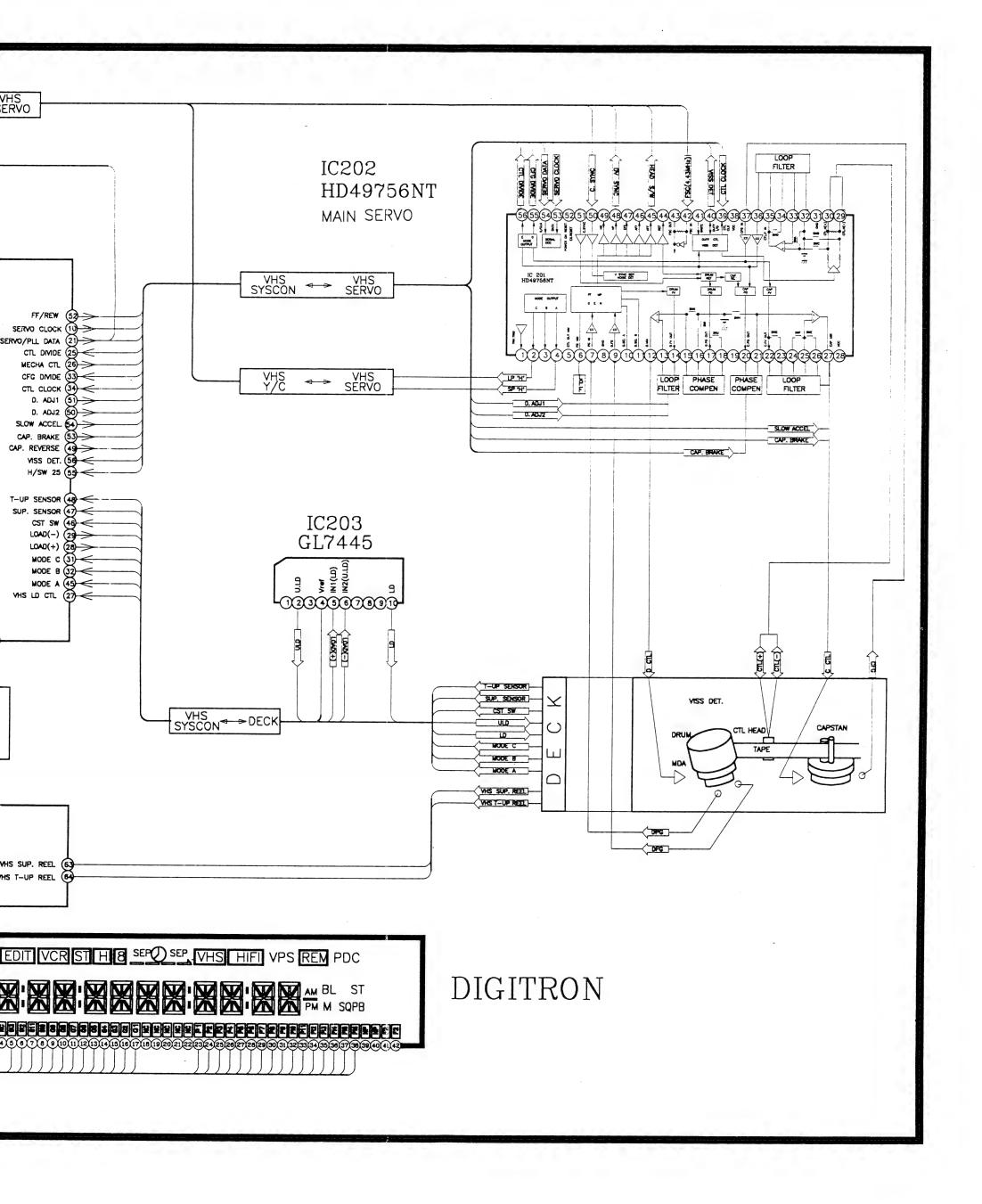
- a. Connect (+) terminal of Level Meter to TP4A1 (Audio Out terminal).
- b. Playback a 8mm PAL SP test tape (with 1KHz or 400Hz Audio signal).
- c. Adjust VR4A1 so that level is 6 ± 0.5 dBm.



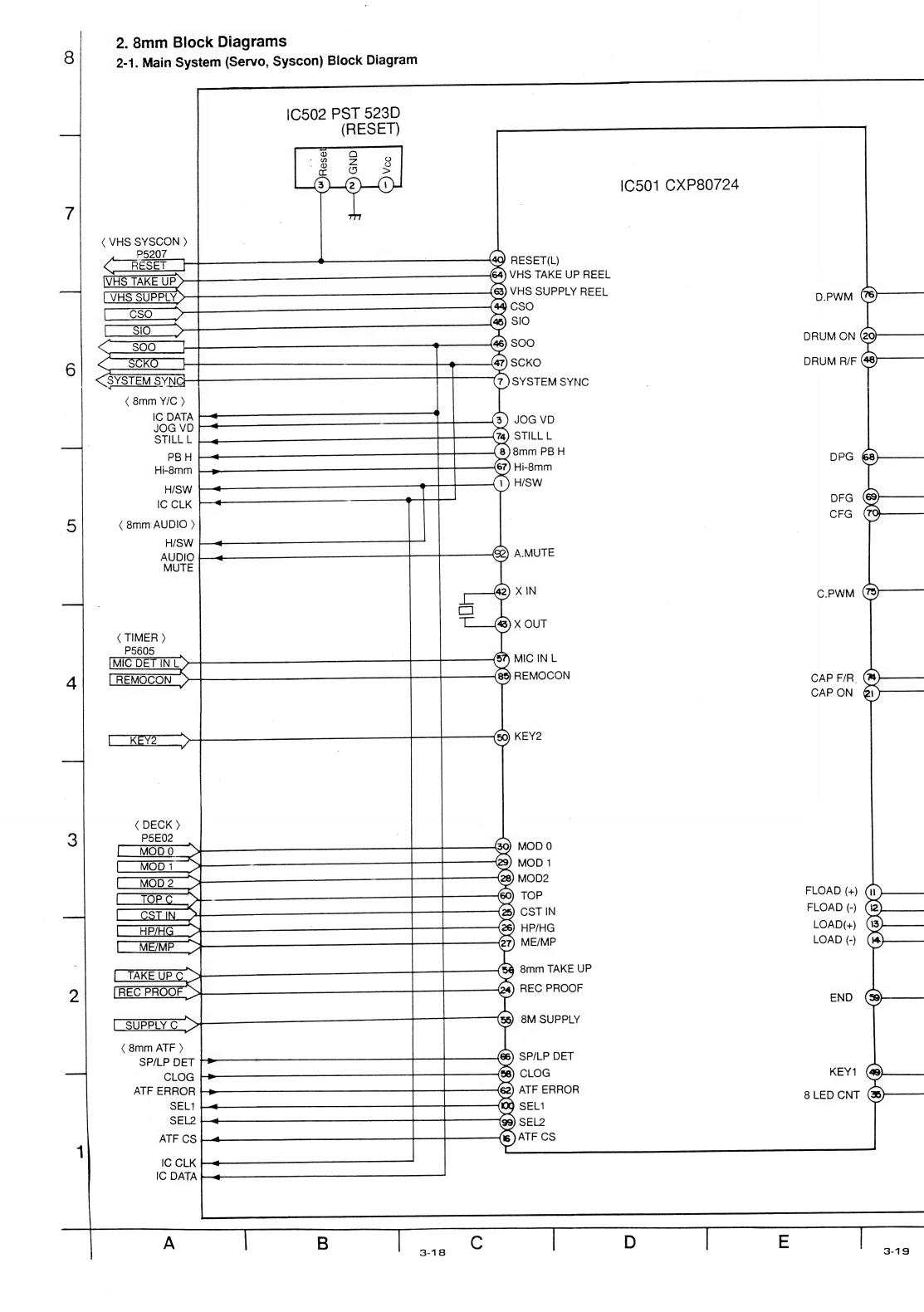


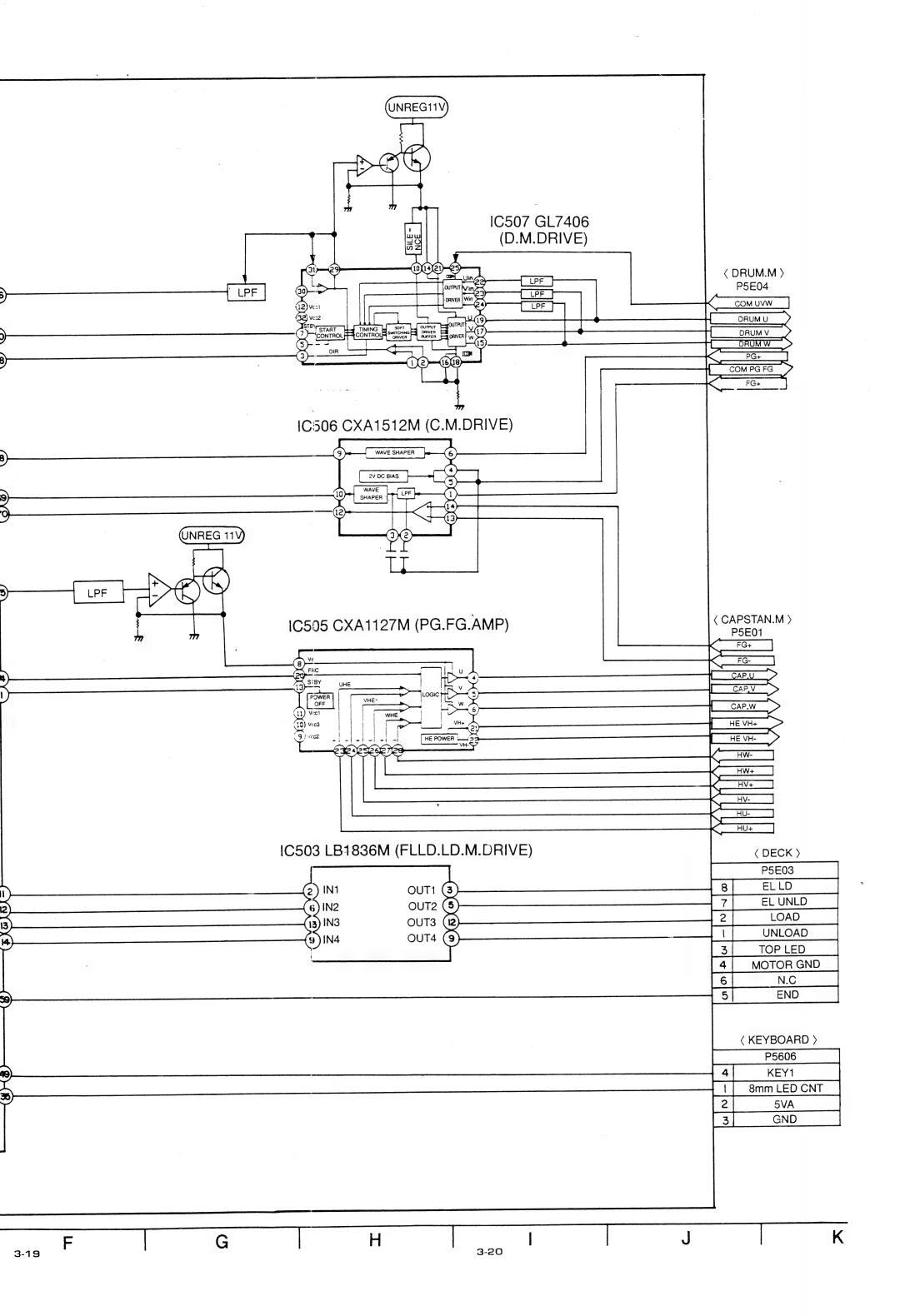


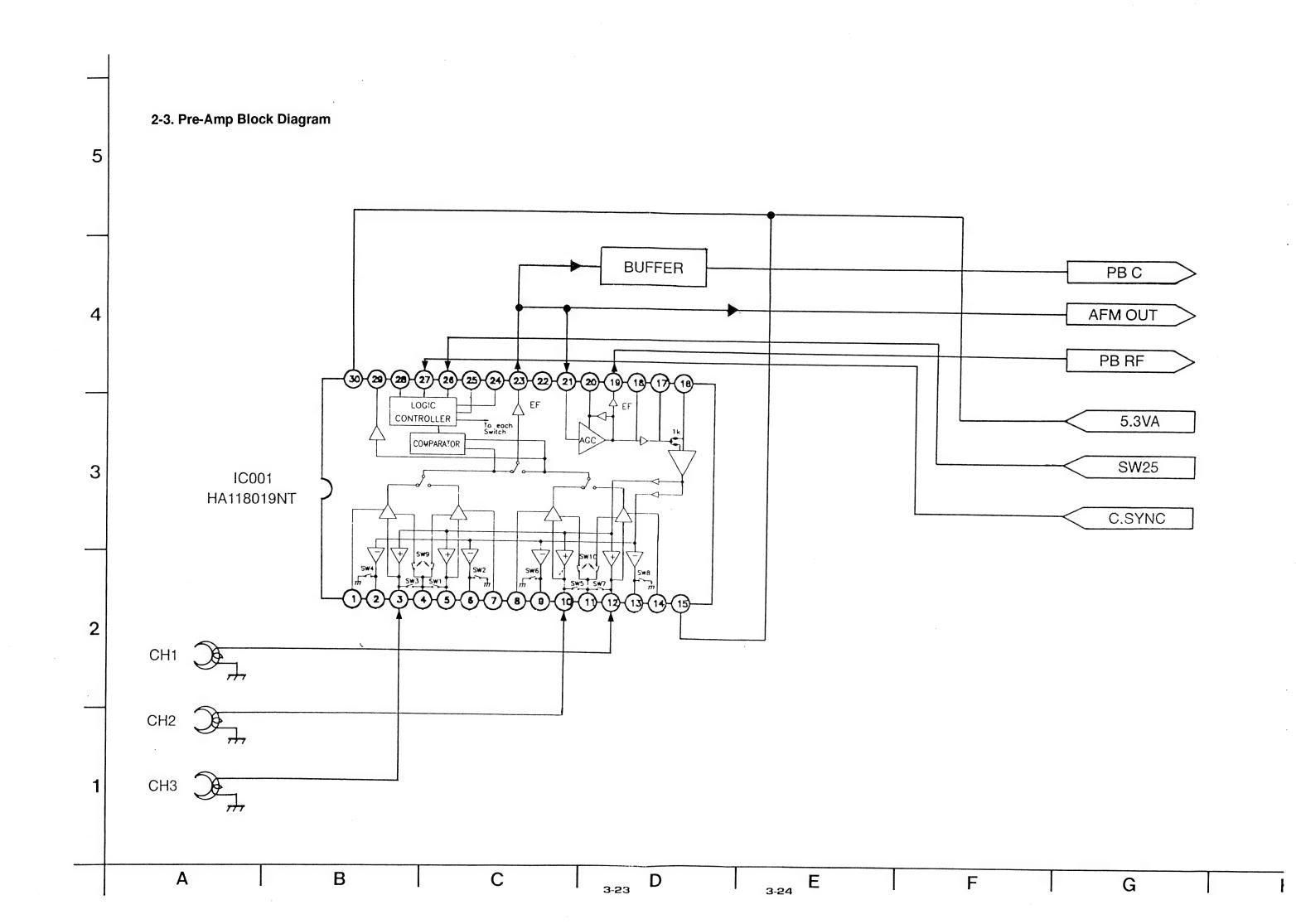


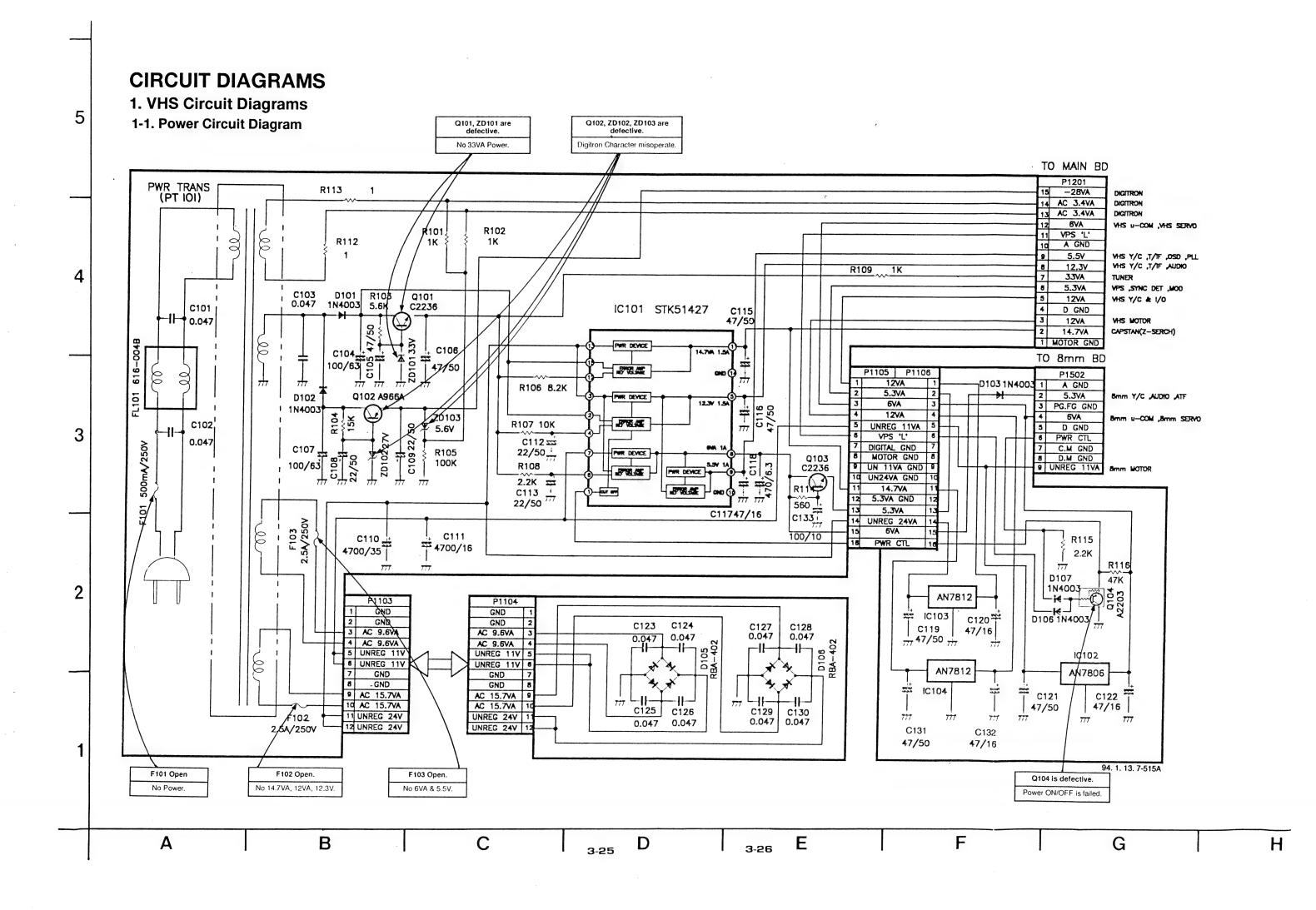


E G H 3-17

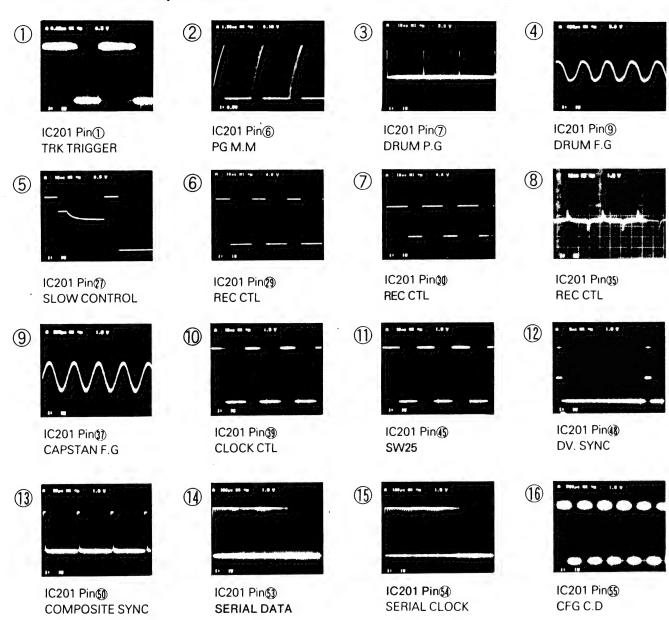


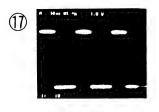




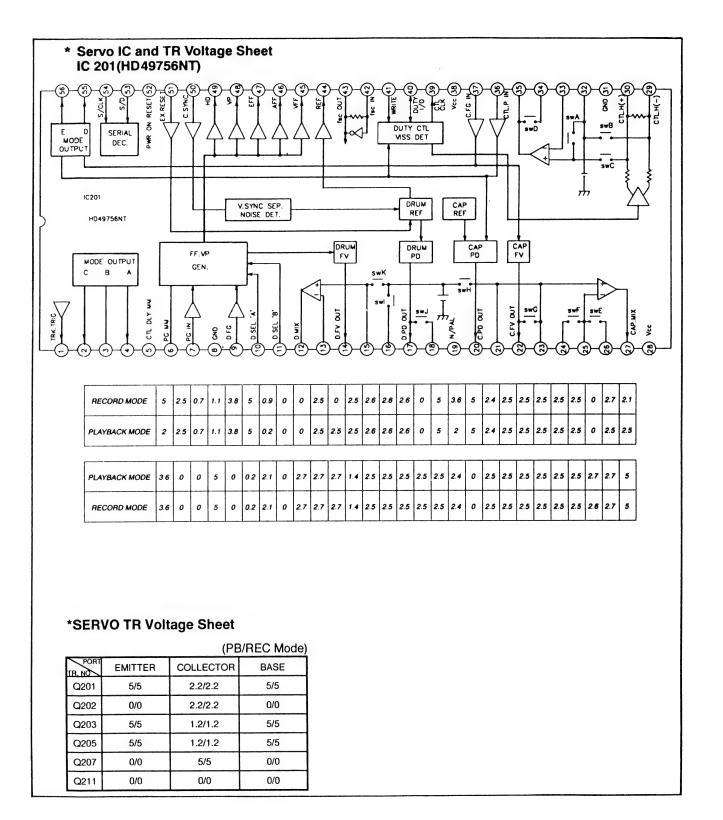


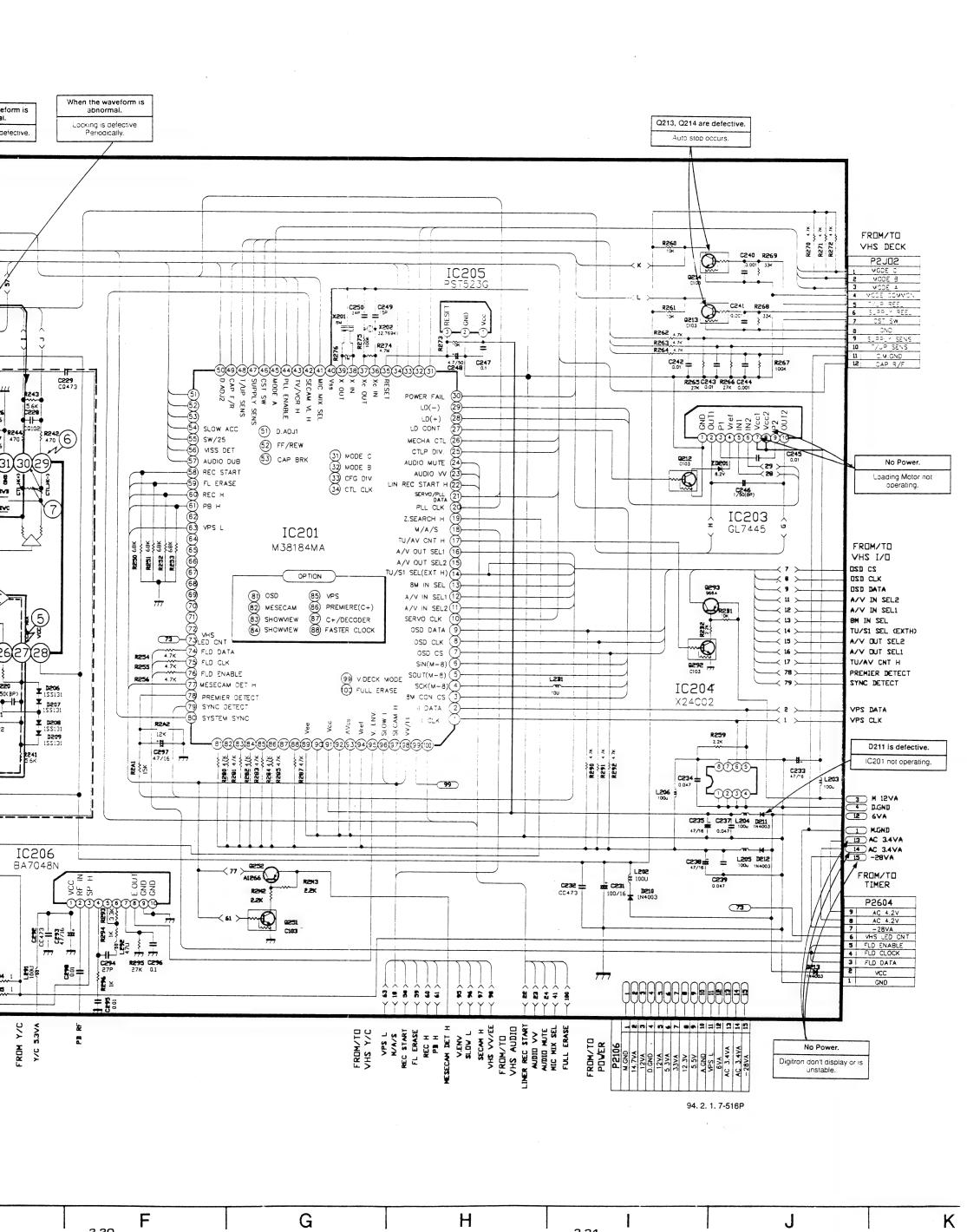
* Servo Oscilloscope Waveform





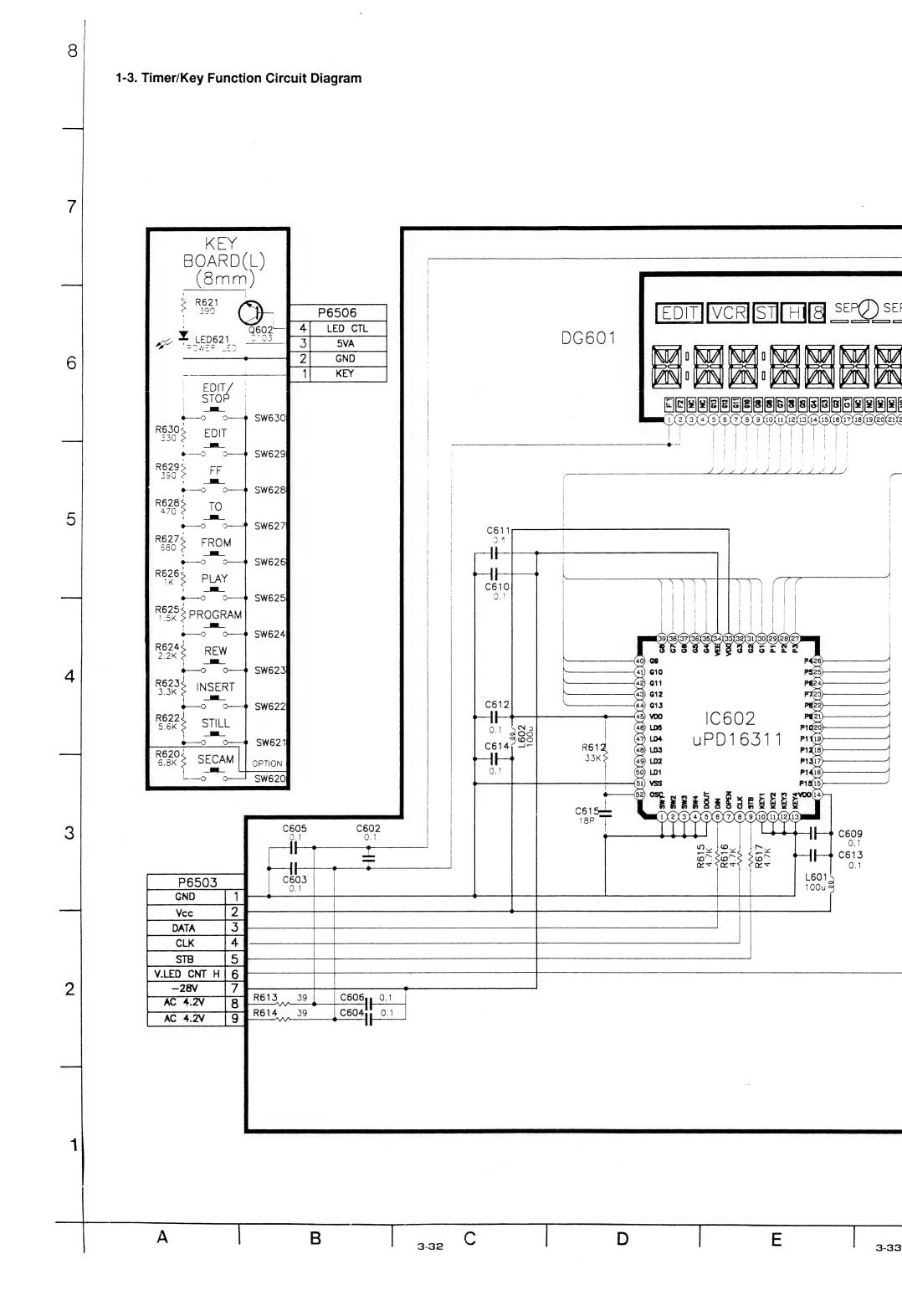
IC201 Pin® CTL C.D

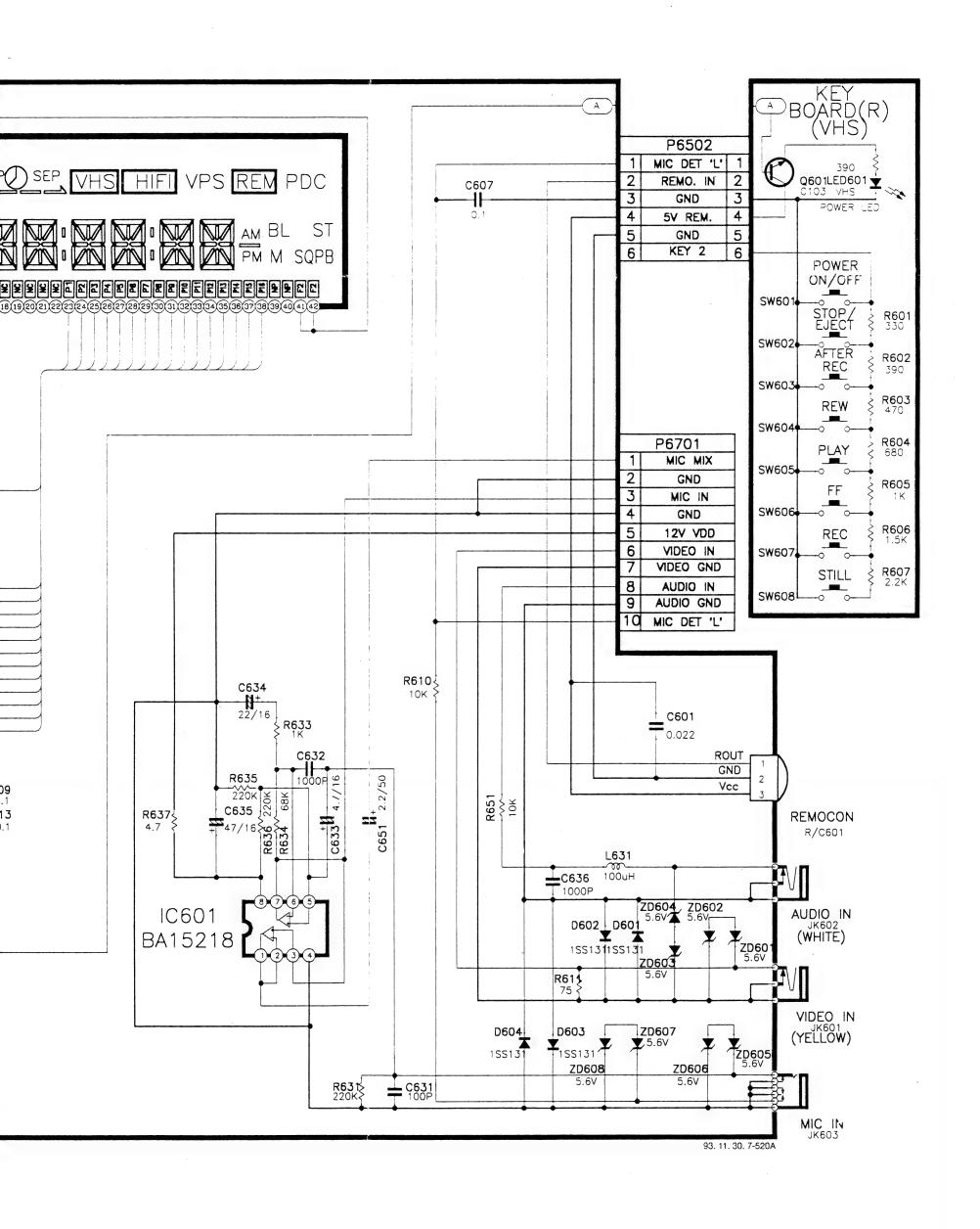




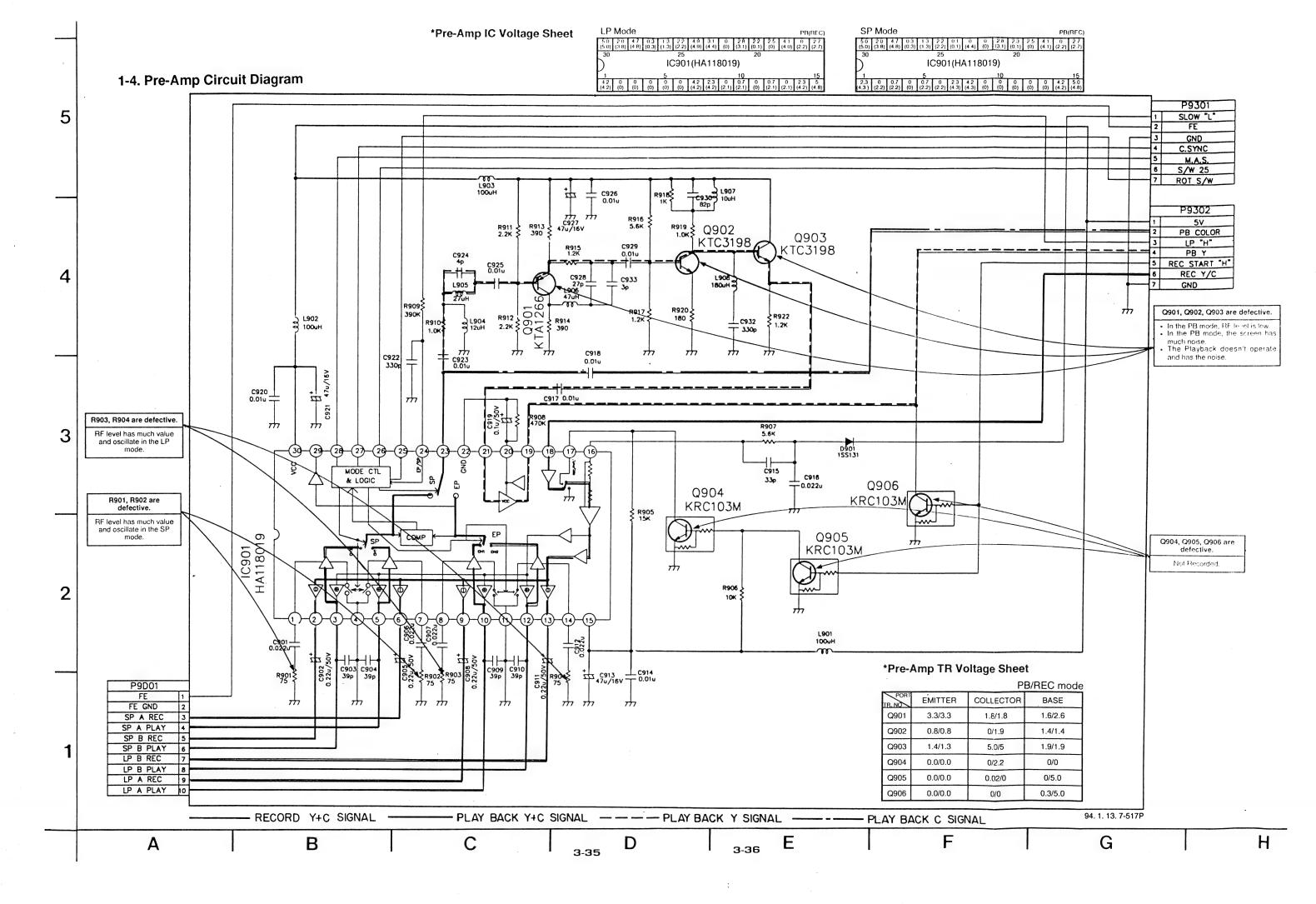
3-31

3-30





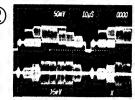
3-33 F G H 3-34 I J K



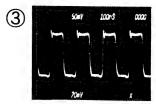
• Y/C Waveform (When taking a photograph of waveform, set probe of oscilloscope to 10:1)



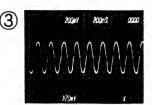
P3P02 Pin ② (TP203) Playback RF (SP mode) (20mV/5msec)



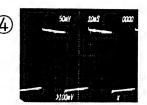
IC301 Pin (4)
Playback Color
(5mV/10µsec)



IC301 Pin (8)
Playback Mode: Fsc
Oscillation (20mV/100msec)



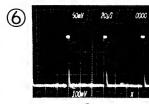
IC301 Pin (8)
Record Mode : Fsc
Oscillation (20mV/100msec)



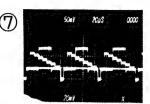
TP201 S/W 25 (100mV/10msec)



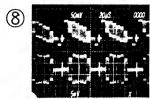
IC301 Pin @ C.SYNC (100mV/20µsec)



IC301 Pin 30 B.G.P Out terminal (100mV/20µsec)



IC301 Pin ③
Clamp Input terminal (20mV/20µsec)



Q314 Emitter Record Color Signal (5mV/20µ sec)



IC303 Pin (9) Color Burst signal (10mV/20µsec)

*Y/C TR Voltage Sheet

				PB/REC Mode
PORT				
IR.NO	EMITTER	COLLECTOR	BASE	REMARK
Q301	0/0	0/0	0/0	SP Mode
4001	0/0	0/0	4.7/4.8	LP Mode
Q302	1.5/1.6	5.1/5.0	2/2.1	
Q303	0/0	0/0	0/0	
Q304	3.6/3.0	0/0	3/2.4	
Q305	4.2/3.7	0/0	3.6/3.0	
Q306	0/0	0/0.5	5/0.2	
Q307	0/0	4.6/4.6	0.6/0.5	
Q308	1.2/0	5/0.2	1.8/0.1	
Q309	2.8/0	5/0.2	3.4/0.1	
Q310	0.9/0	1.5/0.2	1.5/0.1	
Q311	1/0	5/0.2	1.5/0.2	
Q312	0/0	0/5	5/0	
Q313	5.1/5.1	5/0.2	4.3/5.1	
Q314	1/0.6	0/0	0.4/0	
Q315	2/0.2	0/0	0/0	
Q316	2.8/0	0/0.2	3.4/0	
Q321	11.6/11.6	0/0	11.6/11.6	
Q322	0/0	11.6/11.6	0/0	
Q323	0.5/0.1	11.6/11.6	0/0	
Q324	0/0	0/0	0/0	
Q325	0/0.16	0/0	0/0	

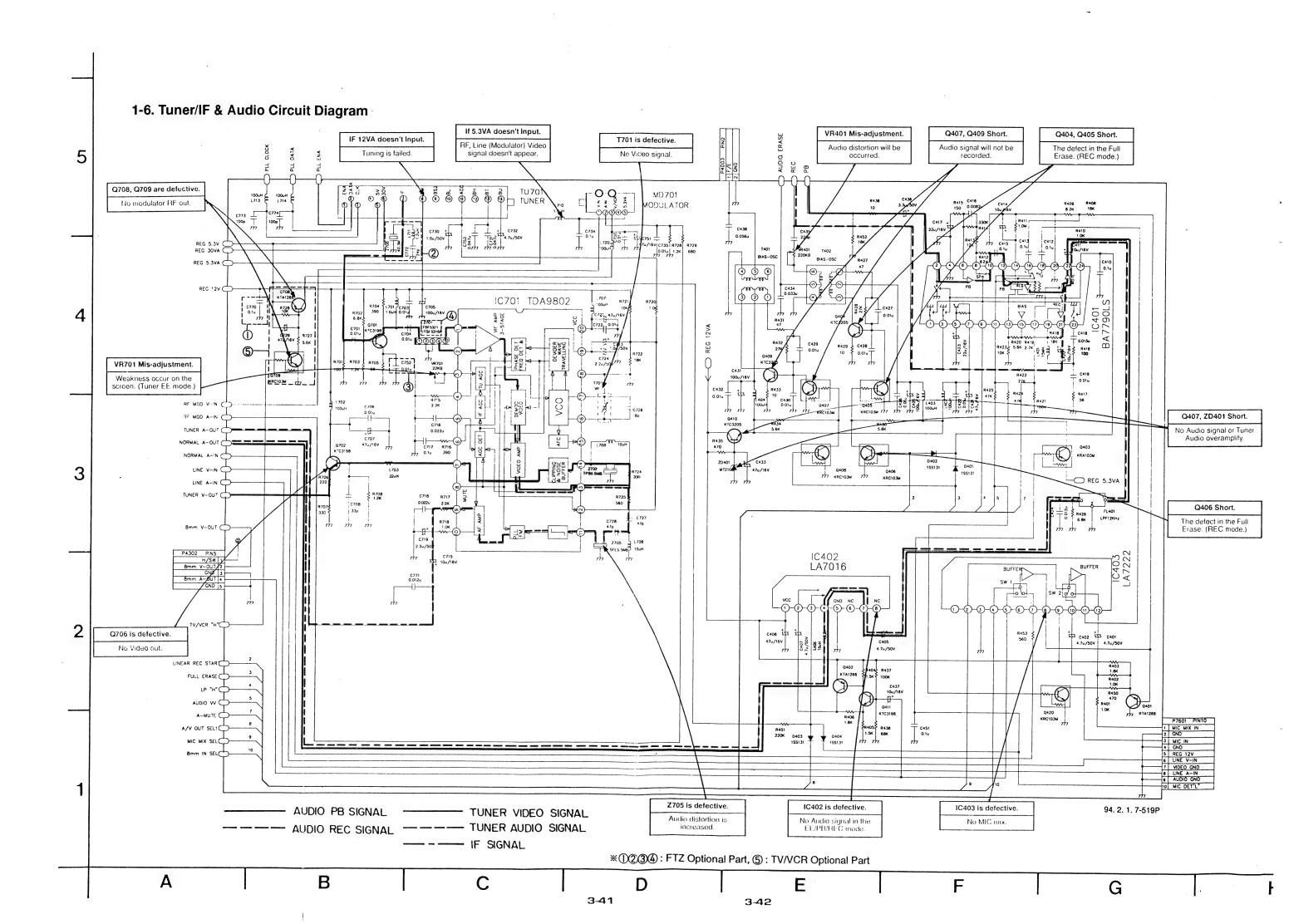
*Y/C IC Voltage Sheet

PAL	Mode						PB((REC)
0 (0)	4.0 (1.0)	(0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0.1)	5.4 (5.4)
				10				
D		IC3	303(BA7	7025	SL)		
1		-5					15	
3.8 0 5.4 4.7 3.1 3.9 4.0 0 5.4 (3.8) (0) (5.4) (0) (3.1) (3.9) (4) (0) (5.4)								

MES	ECAN	1 Mod		PB	(REC)			
0 (0)	4.0 (4.0)	0 (0)	0 (0)	0 (0)	4.4 (4.3)	4.3 (4.3)	4.5 (4.5)	5.4 (5.4)
				10				
D		IC3	303(BAZ	7025	5L)		
1		5					15	
3.8	0	5 (5)	4.8	3.2	5 (5)	3.8	(0)	5.4 (5.4)

		PB(REC
8	2	2	2
(0.2)	(0.1)	(0.2)	(0.3)
)(M	IC	304	5
	ISM7	7403	RS)
4.85	0	4.85	3.3 (0.1)
(0.2)	(0)	(0.2)	

PAL	Mode															PB(REC)
2.5 (2.5)	0.6 (0.6)	3.7 (3.2)	3.3 (3.3)	1.4 (1.4)	3.3 (3.3)	0.6 (0.6)	5.0 (5.0)	2.0 (2.0)	0.1 (0.1)	0.5 (0.5)	4.1 (4.1)	5.0 (5.0)	2.0 (2.0)	2.0 (2.0)	2.5 (2.4)	3.3 (3.3)	3.3 (3.3)
	35					30					25		4.6 (4)	MESE	ECAM	20	
\cup						IC	301	(LA	739	0)		ı					
1				5					10					15			
2.3 (0)	3.1 (2.4)	2.4 (2.8)	4.5 (2.8)	4.5 (2.8)	4.3 (4.3)	2.5 (2.4)	3.2 (2.2)	2.1 (2.1)	0 (0)	2.0 (2.1)	2.5 (0.5)	2.2 (1.7)	3.0 (3.0)	2.3 (2.5)	2.2 (2.2)	3.8 (3.8)	2.6 (3.4)



*Tuner/IF TR Voltage Sheet

TR. NO	EMITTER	COLLECTOR	BASE
Q701	1.17	12.2	1.78
Q702	1.62	12.2	2.23
Q708	5.25	5.13	4.50
Q709	0	0	5.07

*Tuner/IF IC Voltage Sheet

	5.11	3.01	0.0	2.79	2.79	4.89	1.97	1.99	4.10	2.59
	20 15									
١) IC701(TDA9802)									
I	1 5 10									
١	3.32	3.32	1.07	0.21	3.08	2.50	2.24	3.23	1.96	1.50

*Tuner

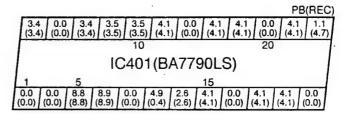
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
0.11	0.14	0	0.06	5.26	30.6	0	12.2	0	0	4.7	11.9	18.6	0	þ

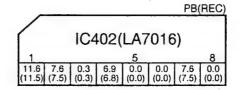
*Audio TR Voltage Sheet

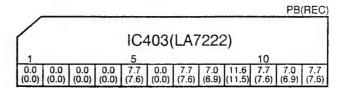
PB/REC Mode

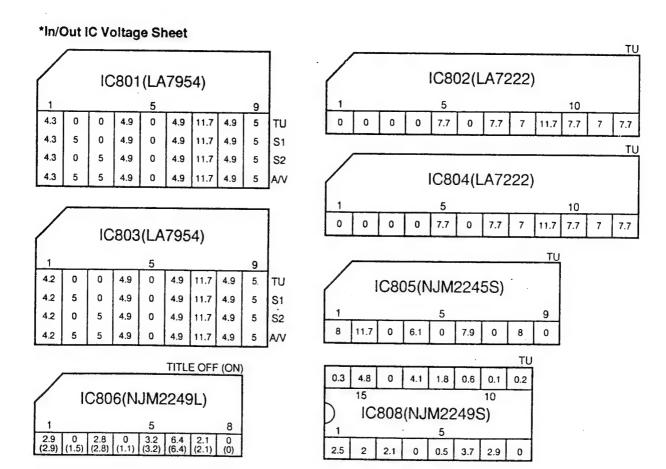
			D/11.20 11.000
TR. NO	EMITTER	COLLECTOR	BASE
Q401	0.0/7.5	0.0/0.0	7.0/6.9
Q402	11.6/11.5	7.4/7.3	10.9/10.8
Q403	4.7/4.7	4.8/0.4	4.6/4.6
Q404	0.0/0.4	8.9/8.8	0.0/0.8
Q405	0.0/0.0	0.0/0.8	7.3/0.0
Q406	0.0/0.0	7.3/0.0	0.0/4.6
Q407	0.0/0.0	0.0/0.9	7.4/0.0
Q408	0.0/0.0	7.4/0.0	0.0/4.9
Q409	0.0/0.5	9.0/8.8	0.0/0.9
Q410	9.0/8.9	11.6/11.5	9.5/9.5
Q411	4.0/4.0	11.0/10.8	4.6/4.5
Q420	0.0/0.0	0.0/7.5	4.9/0.0

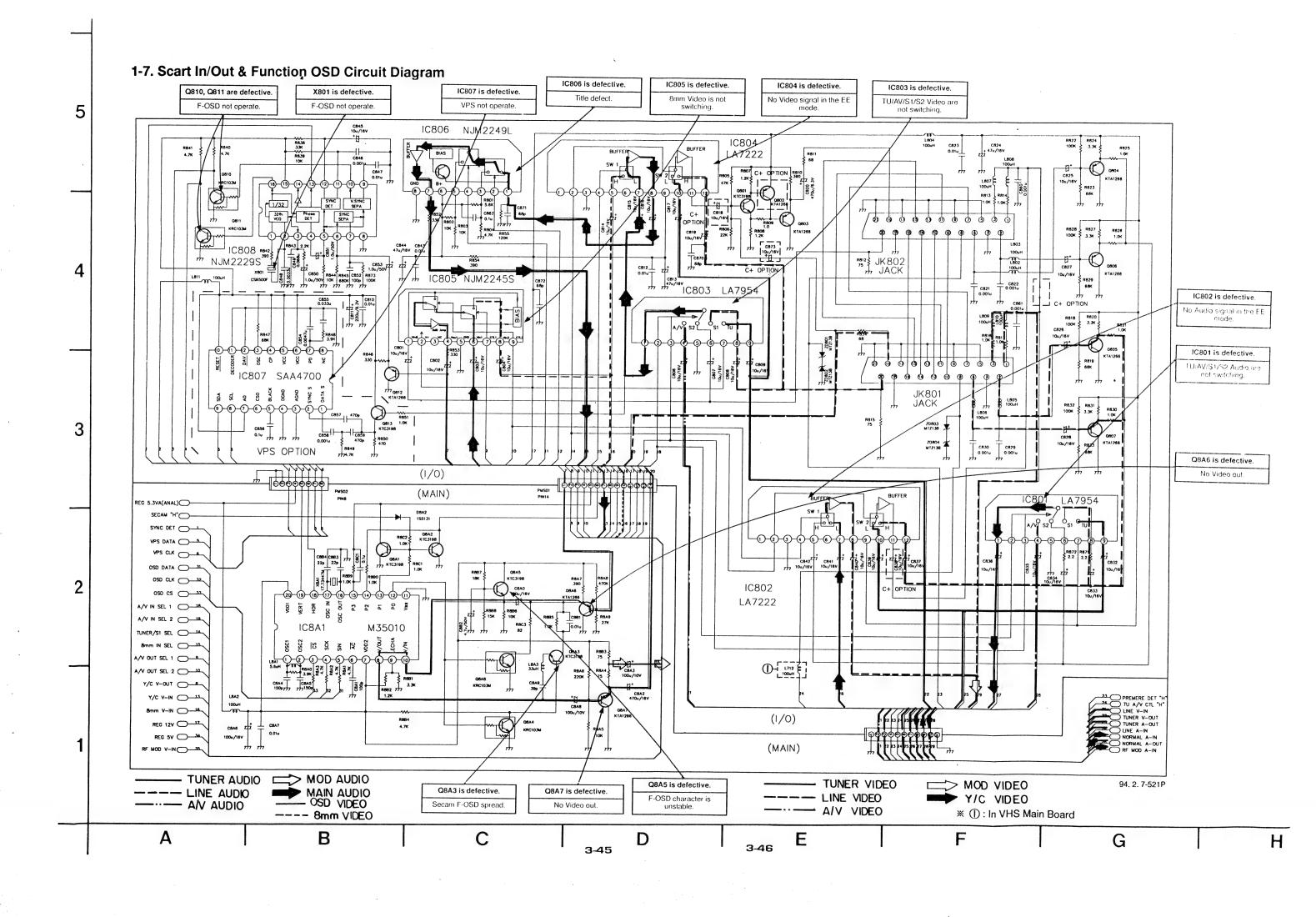
*Audio IC Voltage Sheet

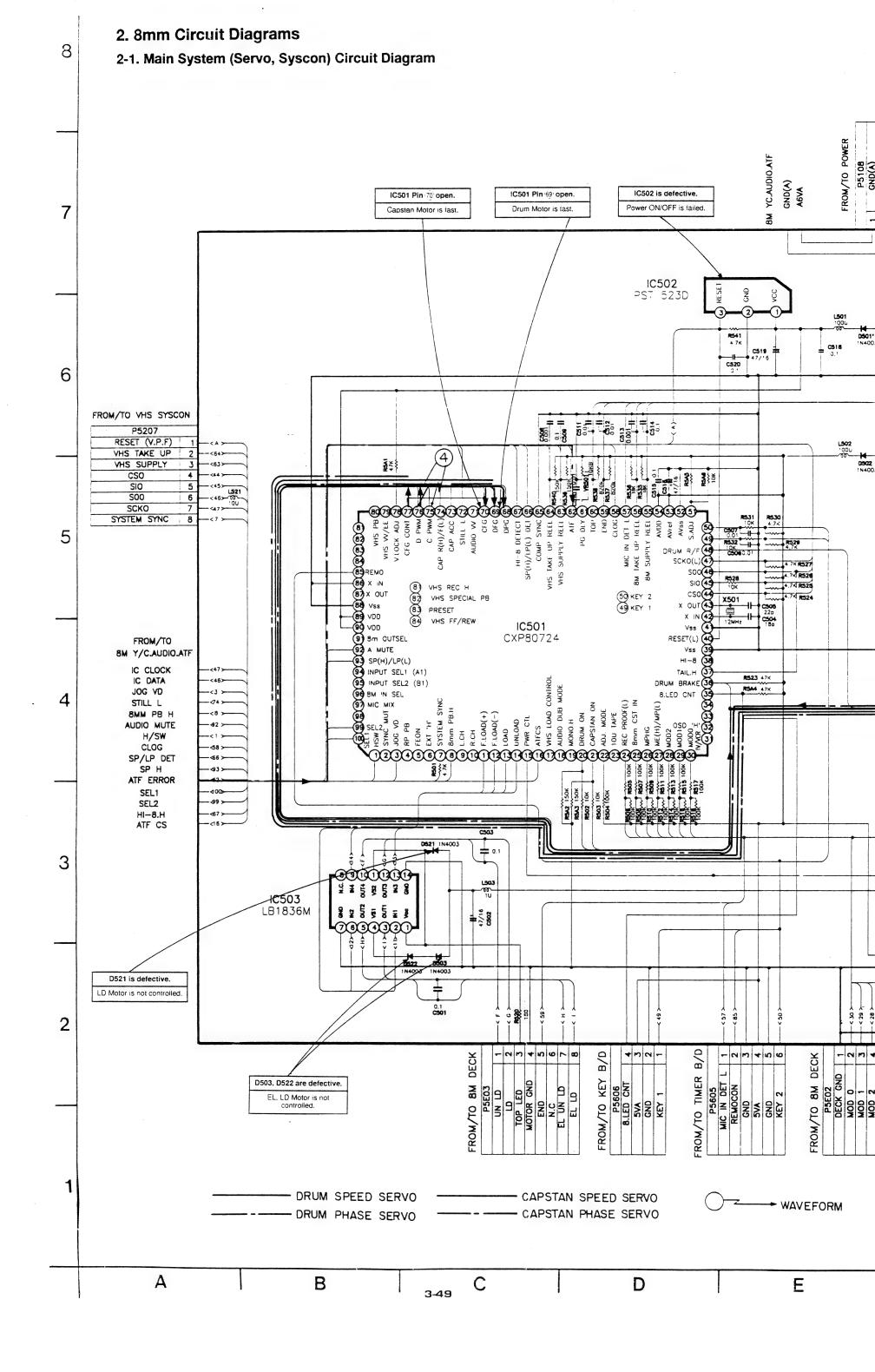


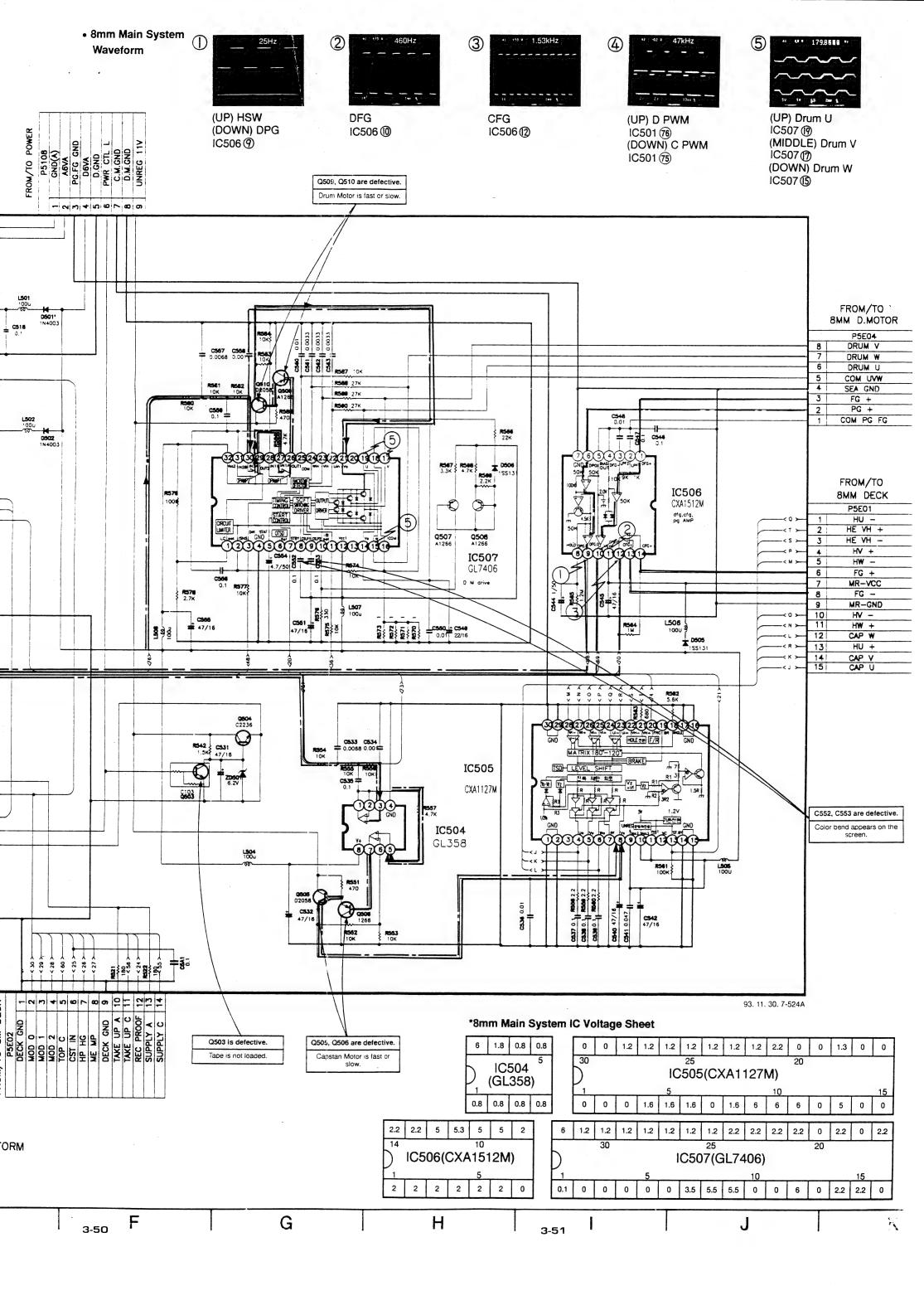


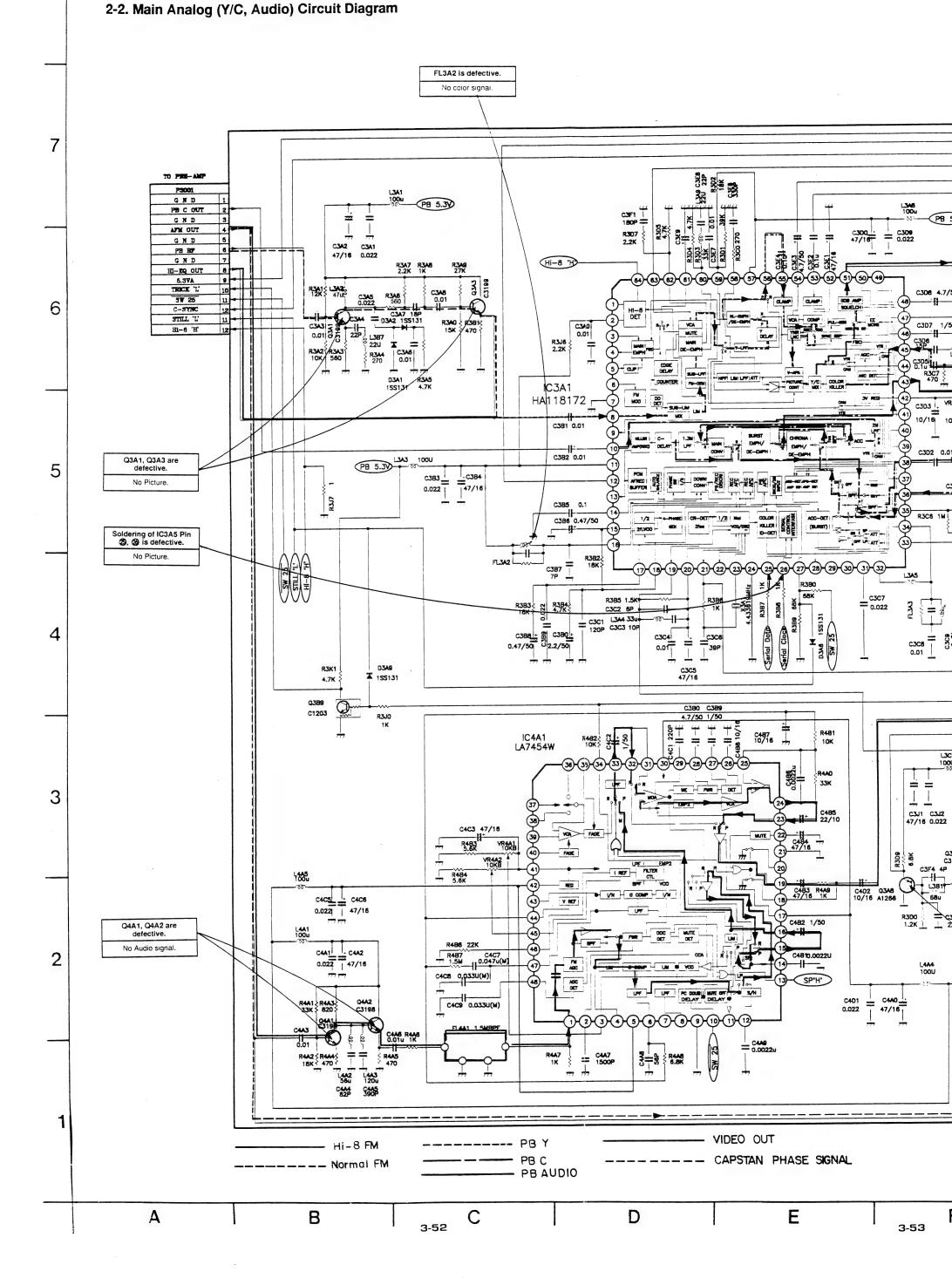


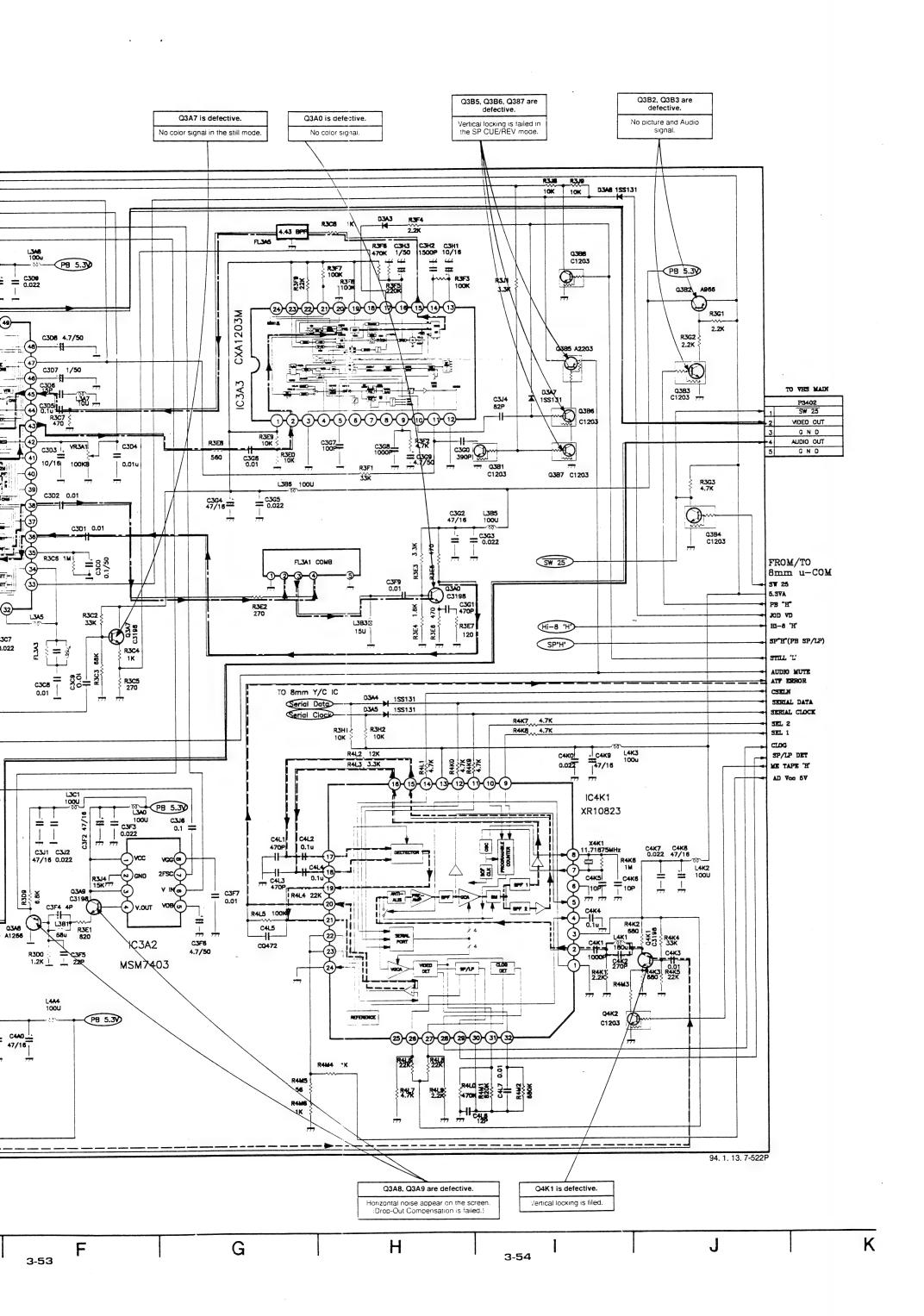












PRINTED CIRCUIT BOARD DIAGRAMS

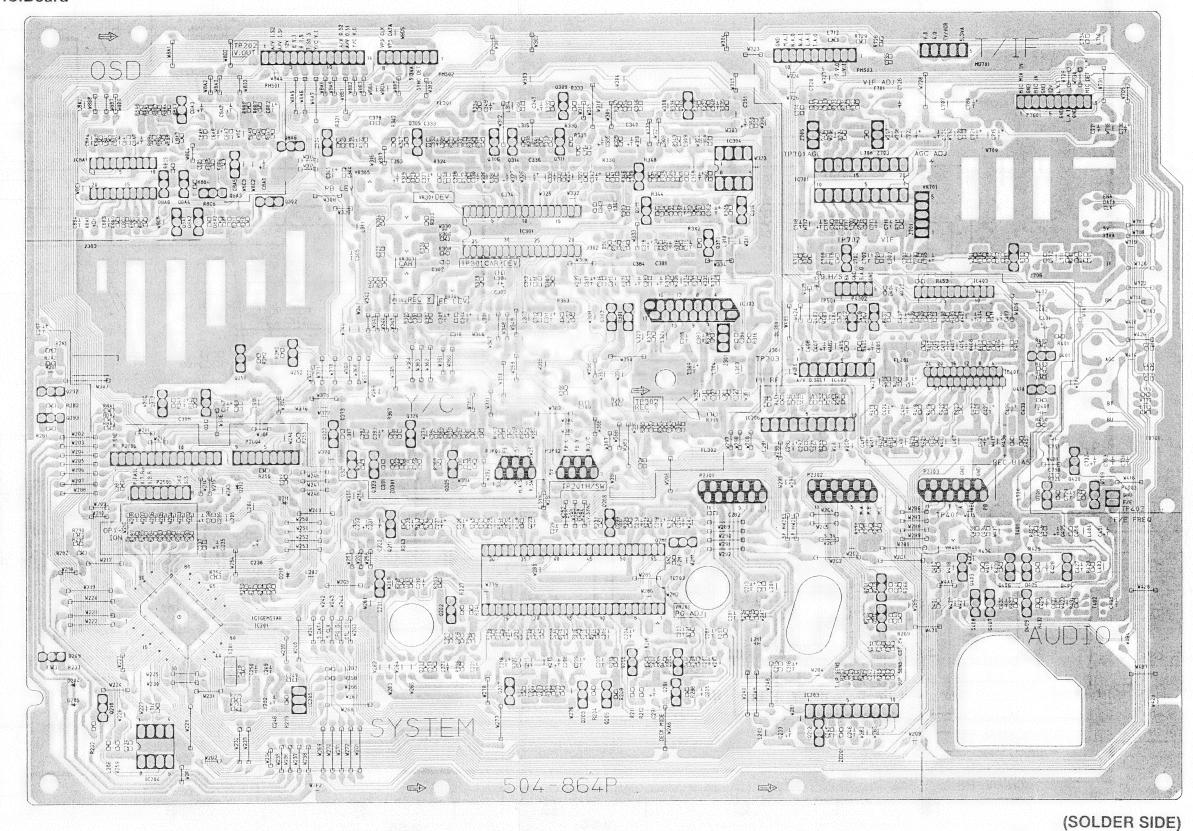
- 1. VHS Printed Circuit Board
- 1-1. Main P.C.Board

Α

B

C

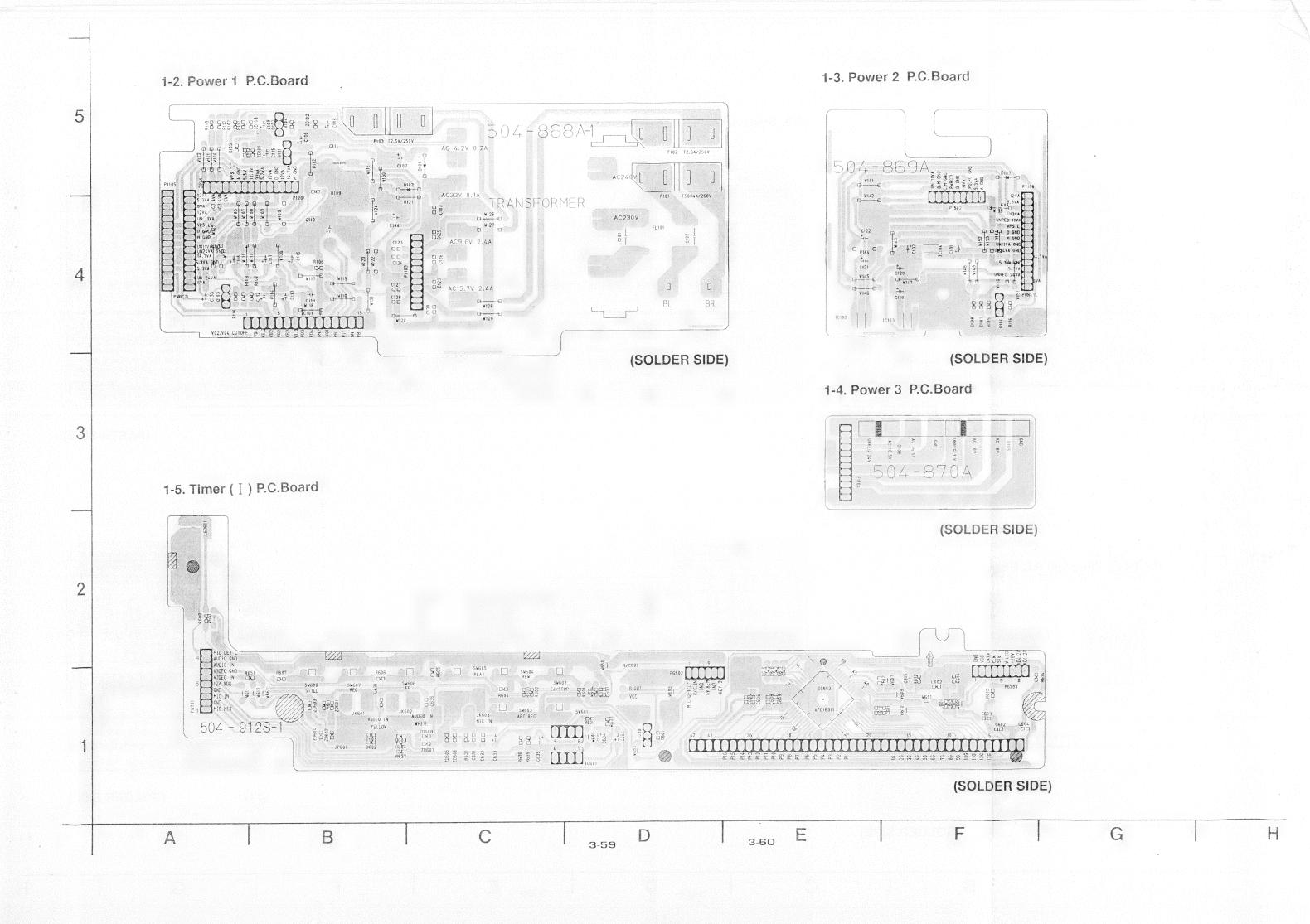
3-57

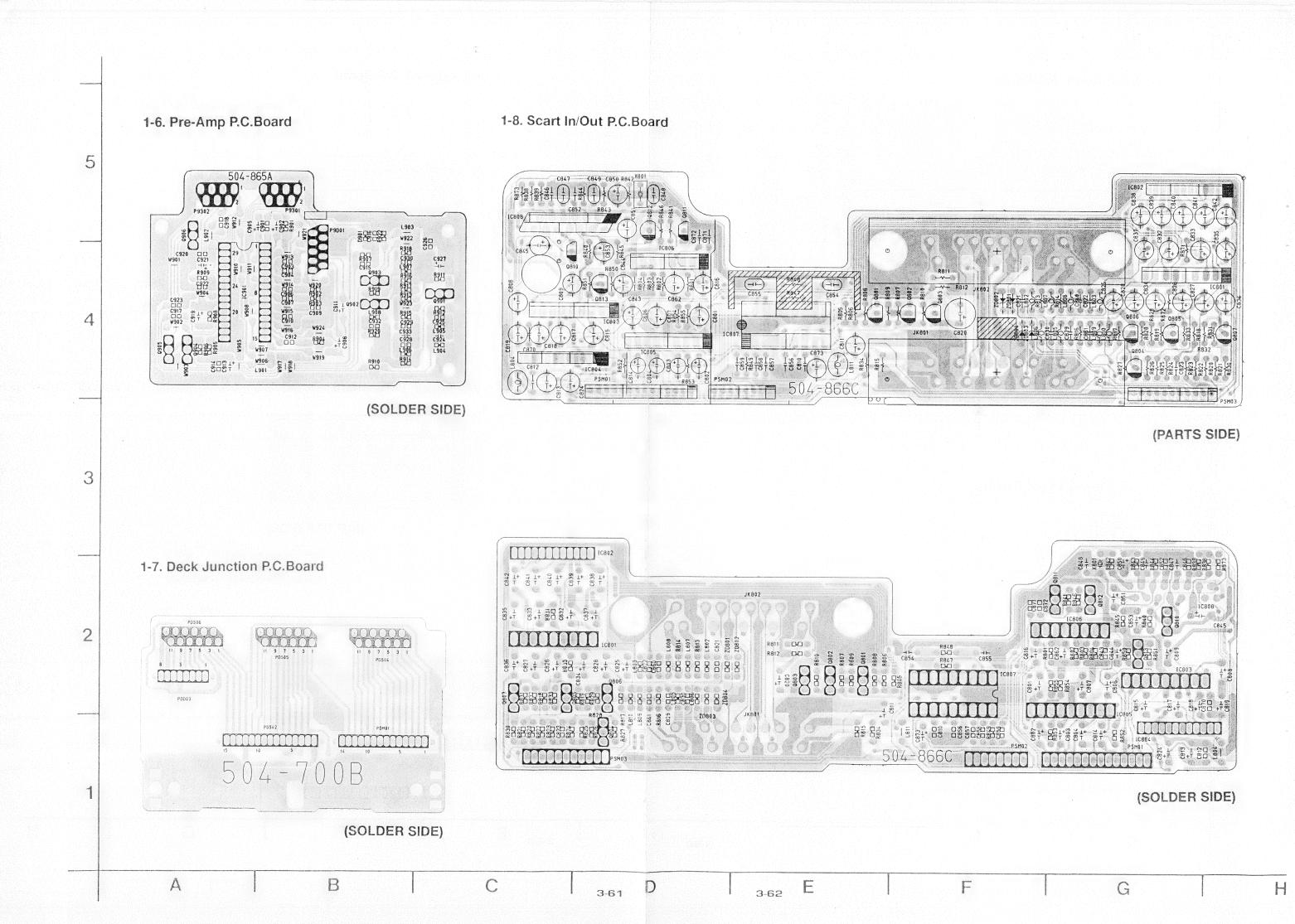


E

3-58

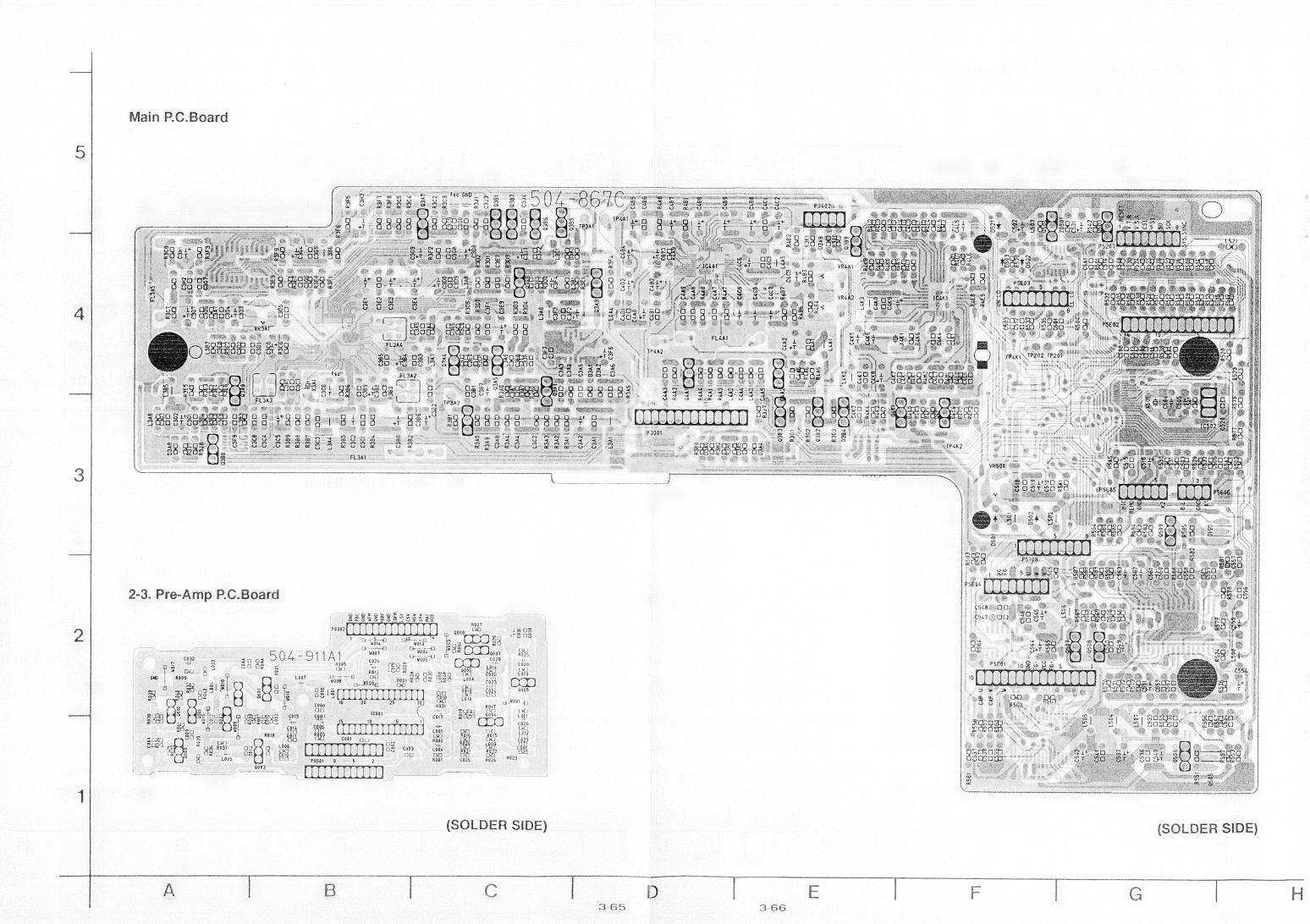
G





5 3 2-2. Timer (I) P.C.Board 2 504 - 723B-(PARTS SIDE) (SOLDER SIDE) A В C E G D

H



2-4. Deck Junction P.C.Board

FEED

TAKE UP

TOP SENSOR

TAKE UP

TOP SENSOR

TAKE UP

TOP SENSOR

TAKE UP

REEL

TOP SENSOR

TAKE UP

REEL

CST-IN

(SOLDER SIDE)

1

5

4

3

2

A B C 3-67 D

SECTION 4

MECHANISM

GoldStar WIS SERVICE MANUAL

CONTENTS

SECTION 4-1

VHS DECK MECHANISM

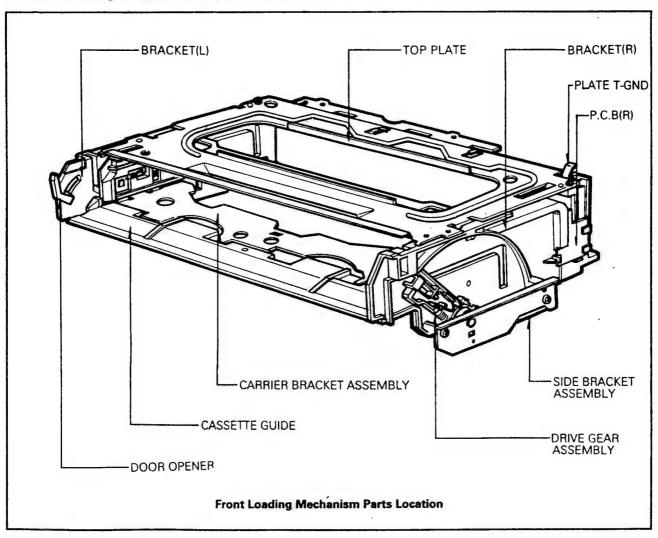
SECTION 4-2

8mm DECK MECHANISM



SECTION 4-1. VHS DECK MECHANISM FRONT LOADING MECHANISM DISASSEMBLY

• Front Loading Mechanism Parts Location



- Component list below will be discribed as if the top and bottom covers and the front panel have already been removed.
- 2. P.C.B Assembly
- 3. Top Plate
- 4. Carrier Bracket Assembly

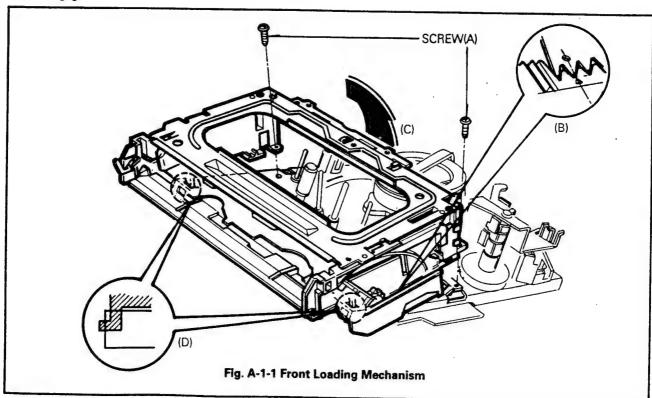
- 5. Cassette Guide
- 6. Side Bracket Assembly
- 7. Bracket(L), (R)
- 8. Door Opener
- 9. Drive Gear Assembly

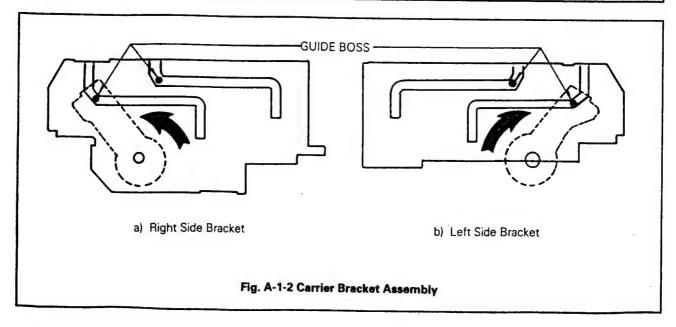
1. Front Loading Mechanism Assembly (Fig. A-1-1)

- 1) Remove the Top and Bottom Covers and the Front panel.
- 2) Unplug the connector.
- 3) Remove two screws(A).
- Lift up the Front Loading Mechanism in the direction of arrow(C).

. NOTE

- 1) When disassembling and reassembling
- Give special attention to removal. because two tabs(D) are engaged.
- ② Make sure that Bosses of Bracket(L),(R) are properly engaged in the holes of the chassis.
- ③ To reassemble Front Loading Mechanism, the Drive Gear Assembly should be turned in a counterclockwise as shown in Fig. A-1-2 so that the Rack Gear N.D of Front Loading Mechanism Assembly is meshed into Rack Gear F.L of Deck Mechanism Assembly correctly as shown in Fig. A-1-1.(B).





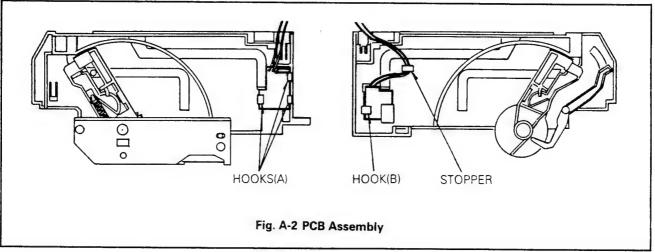
2. PCB(Printed Circuit Board) Assembly

2-1. P.C.B Assembly(R)(Fig. A-2)

- Remove the PCB Assembly(R) by pushing three Hooks (A) outward.
- 2) Release the Lead wire from stoppers.

2-2. PCB Assembly(L).(Fig. A-2)

- 1) Remove the PCB Assembly(L) by pushing the Hook(B) outward.
- 2) Release the Lead Wire from stoppers.

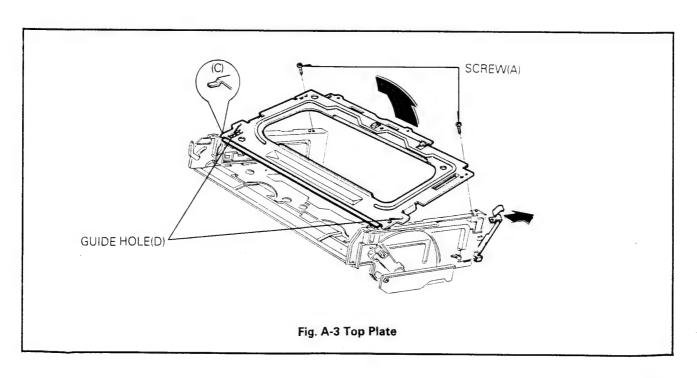


3. Top Plate(Fig. A-3)

- 1) Remove two screws(A).
- 2) Push the upper part of Top plate Ground and then lift up the Top Plate.

* NOTE

- 1) When reassembling, be certain that the tabs(C) of Top Plate is in both Bracket(L),(R).
- ① Then align the guide holes(D) of Top Plate with Bosses of side Bracket(L),(R).



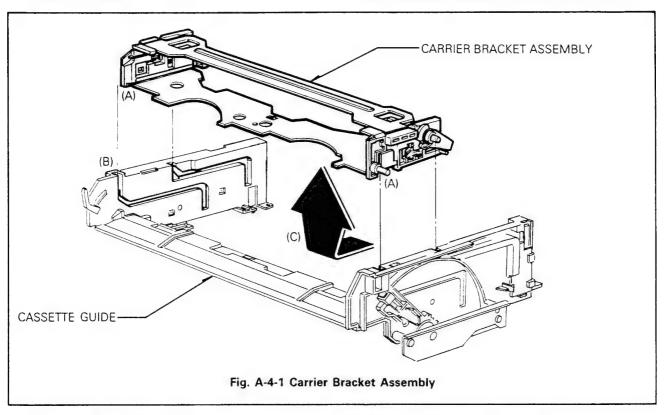
4. Carrier Bracket Assembly

4-1. Carrier Bracket Assembly(Fig. A-4-1)

1) Remove the Carrier Bracket Assembly by moving it in the direction of arrow(C).

* NOTE

1) When reassembling, be sure that parts(A) of Carrier Bracket Assembly are seated in parts(B) of Bracket(L),(R).



4-2. Cassette Opener(Fig. A-4-2)

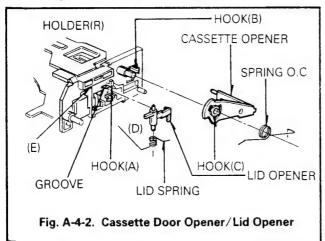
- 1) Release the spring O.C from the Hook(A) and then release it from Hook(C) of cassette opener.
- 2) Remove the cassette opener by releasing the Hook(B) from the Holder(R).

4-3. Lid Opener(Fig. A-4-2)

1) Remove the lid opener by pushing it outward.

* NOTE

1) When reassembling, seat the upper part of the lid opener in the grooved of Holder(R) and push it inward.

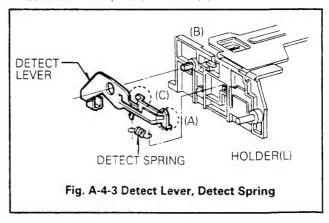


4-4. Detect Lever and Detect Spring

- 1) Remove the spring detect.
- 2) Lower the side(A) of Detect Lever and then remove the Detect Lever by pushing it outward.

* NOTE

1) When reassembling, make sure that the part(C) of Detect Lever set in the part(B) of Holder(R).

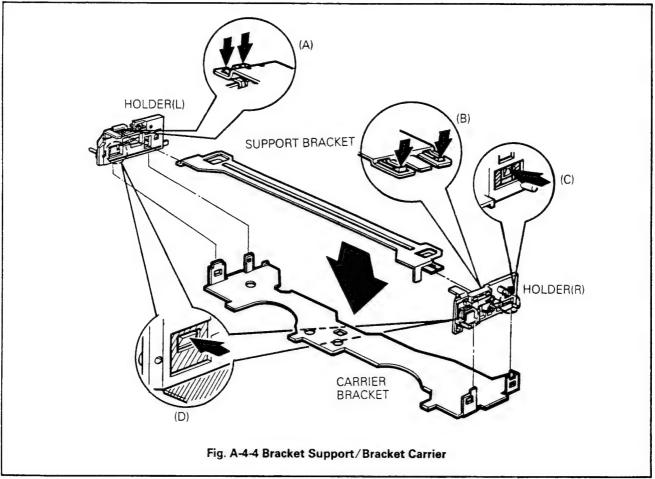


4-5. Bracket Support (Fig. A-4-4)

1) Take the Support Bracket out by releasing hooks(A),(B).

* NOTE

 When disassembling and reassembling, be careful because heavy force can damage the hooks.



4-6. Carrier Bracket Assembly(Fig. A-4-4)

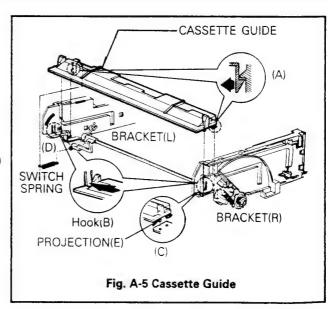
1) Remove the Carrier Bracket by releasing hooks(C),(D).

5. Cassette Guide(Fig. A-5)

- Remove the Switch Spring with the Front Loading Mechanism Assembly turned over.
- 2) Push two hooks(B) outward.
- 3) Remove the Cassette Guide by pushing two hooks(A). outward(if one is removed, the other will be easy to remove)

* NOTE

- 1) When reassembling
- ① Seat projections(E) of Cassette Guide in holes of Bracket Assembly(L),(R) and then engage the Hook(A).
- ② After finishing previous step, fix the Cassette Guide to the Bracket Assembly(L),(R) by pushing two hooks(B) inward.

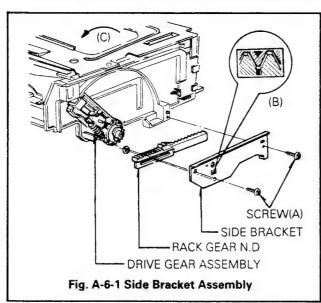


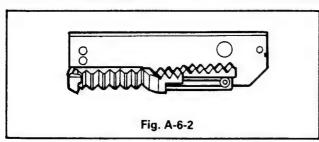
6. Bracket Assembly Side (Fig. A-6-1)

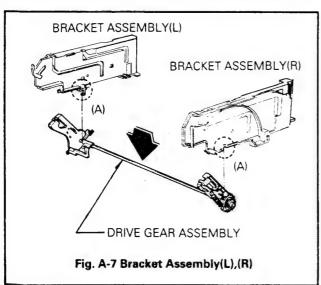
 Remove two screws(A) and then remove the Side Bracket Assembly and the Rack Gear N.D.

* NOTE

- 1) When reassembling
- ① Turn the Drive Gear Assembly in the direction of arrow (C).
- ② Reassemble the Rack Gear N.D. to the Side Bracket Assembly, as shown in Fig. A-6-2, and then reassemble







it to the Bracket Assembly(L), This time the Assembling Figure should be the same as(B) at the rectangular hole of Bracket Side.

7. Bracket Assembly(L),(R)(Fig. A-7)

 Seperate the Bracket Assembly(L),(R) from the Gear Assembly Drive.

* NOTE

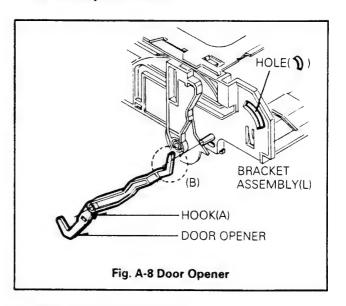
When reassembling, seat the shaft in the part(A) of Bracket Assembly(L) (R).

8. Door Opener(Fig. A-8)

1) Remove the Door Opener by pushing Hook(A) outward.

* NOTE

1) When reassembling, seat the part(B) of Door Opener in the hole() of Bracket(L).



9. Drive Gear Assembly

9-1. Drive Gear Assembly(Fig. A-9-1)

 Remove the Drive Gear Assembly from the Bracket Assembly(L),(R).

9-2. Cushion Spring(Fig. A-9-1)

1) Remove the cushion spring from the Gear R.

9-3. Cap-D(Fig. A-9-1)

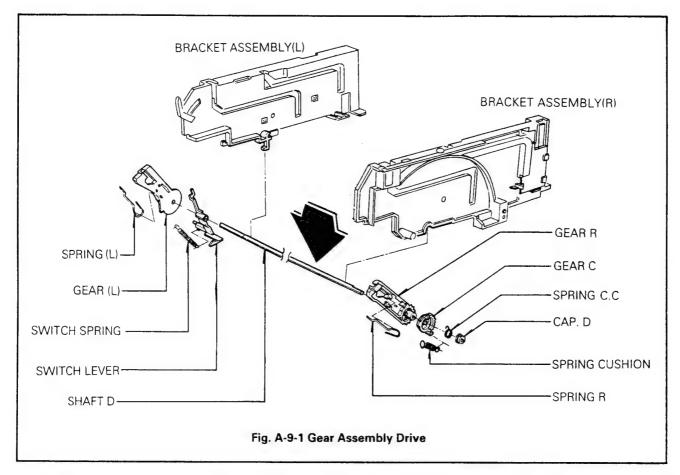
1) Remove the Cap-D by lifting it up.

9-4. Spring C.C(Fig. A-9-1)

1) Remove the Spring C.C from the Gear R.

9-5. Gear C(Fig. A-9-1)

 Remove the Gear C by lifting up when the projection of Gear C is aligned with the hole of Gear R while rotating the Gear C in the counterclockwise direction.



* NOTE

1) When reassembling, seat the projections of Gear R in the holes of Gear C when the projection of Gear R is aligned with the hole of Gear C, and then keep the Gear C turned in the clockwise direction.

9-6. Gear R(Fig. A-9-1)

1) Lift up the Gear R from the Shaft.

9-7. Spring R(Fig. A-9-2)

1) Remove the Spring R by releasing Hooks.

* NOTE

1) When reassembling, be certain Spring R in the part(A) of Gear R.

9-8. Gear L.(Fig. A-9-1)

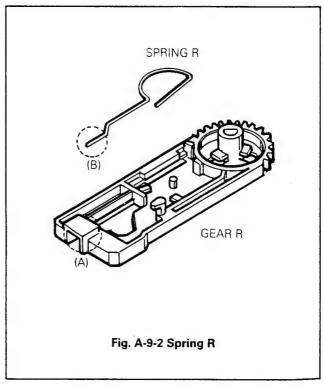
1) Remove the Gear L from the shaft.

9-9. Spring L (Fig. A-9-2)

- 1) Remove the Spring L by releasing Hooks from the Gear
- * NOTE:(Refer to the Spring R Section)

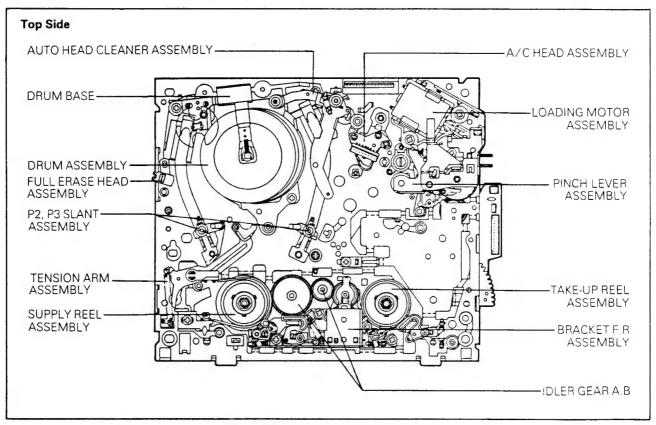
9-10. Switch Lever(Fig. A-9-1)

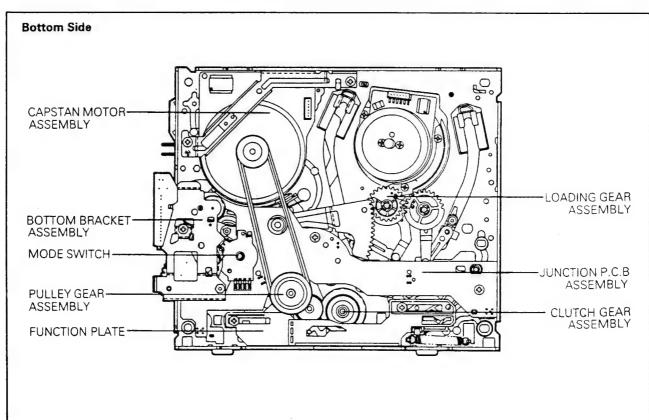
1) Remove the Switch Lever from the shaft.



DECK MECHANISM DISASSEMBLY

• Deck Mechanism Parts Location



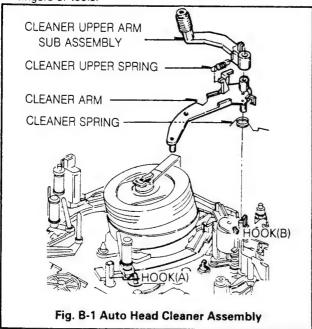


Auto Head Cleaner Assembly (Fig. B-1) (Optional Item)

- Remove the Cleaner Arm Assembly (Auto Head Cleaner Assembly) by pushing the Locking Tab.(B) outward.
- Remove the Cleaner Upper Spring and then remove the Cleaner Upper Arm Sub Assembly.
- 3) Remove the Cleaner Spring.

* NOTE

1) When reassembling, do not touch the Video Head Tip with fingers or tools.



2. Drum Assembly and Drum Base(Fig. B-2)

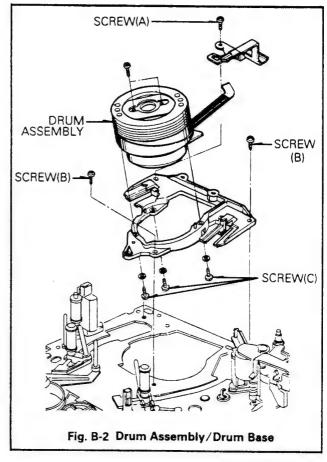
- 1) Remove the Auto Head Cleaner Assembly.
- 2) Unplug the connector with the Deck Mechanism Assembly turned over.
- 3) Loosen the screw(A) and then lift up the Drum Brush.
- Remove two screws(B) and then lift up the Drum Assembly and Drum Base from thε Deck Mechanism Assembly.
- 5) Separate the Drum Assembly from the Drum Base by Loosening three screws(C) on the back of Drum Base.

* NOTE

- 1) When disassembling and reassembling
- ① Do not touch the Video Head tip with fingers or tools. (Give special attention to disassembling and reassembling of Auto Head Cleaner Assembly)
- ② After reinstalling the Drum Brush, the Drum Brush should be aligned with the center of vertical axis of Drum Assembly.
- 3 After completing the reassembly, adjust the transportation system and the Servo P.G.

3. Upper and Lower Drum Assembly (Fig. B-3)

1) Remove the Drum Assembly and Drum Base from the

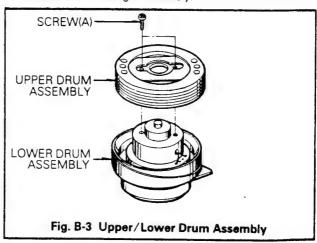


Deck Mechanism Assembly.

- 2) Separate the Drum Assembly from the Drum Base.
- 3) Remove two screws(A).
- 4) Remove the P.C.B.
- 5) Separate the upper Drum Assembly from the Lower Drum Assembly.

* NOTE

- 1) When disassembling and reassembling
- ① Do not touch the Video Head Tip with fingers or tools.
- ② Make sure that the color(white) marked on the P.C.B of the upper Drum should coincide with the color(Green) marked on the Flange Assembly.

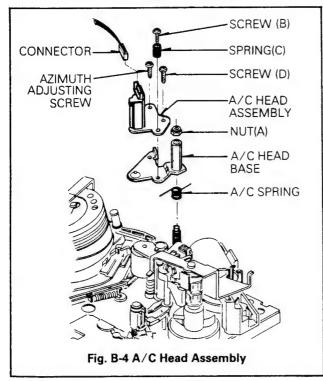


A/C(Audio/Control) Head Assembly (Fig.B-4)

- 1) Unplug the connector
- 2) Remove the Nut(A), and then lift up the A/C Head Assembly.
- 3) Remove the Azimuth Adjusting Screw.
- Remove two screws(B),(D) and then separate the A/C Head Assembly from the Base A/C Head Assembly.

* NOTE

- 1) When disassembling
- First of all, release the spring A/C.
- ② Do not touch the A/C Head Tip with fingers or tools.
- 3 After reinstalling the Audio Control Head Assembly, adjust the Tilt, Azimuth and Height of A/C Head.

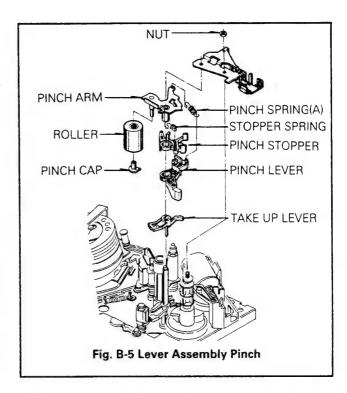


5. Pinch Lever Assembly(Fig. B-5)

- 1) Remove one Nut, and then remove the Dew Bracket.
- 2) Lift up Pinch Lever Assembly.
- 3) Remove the Pinch Spring, and remove the Pinch Lever.
- 4) Remove the Stopper Spring and remove the Pinch Stopper by lifting it up when the Hook of Pinch Stopper is aligned with the hole of Pinch Arm while rotating the Pinch Stopper in the counterclockwise direction.
- 5) Remove the Pinch Cap, and then remove the Pinch Roller Assembly.

* NOTE

- 1) When disassembling and reassembling
- ① Be careful not to get any foreign substance on the Roller.
- ② When disassembling the Pinch Cap, be careful not to damage the Pinch Arm.

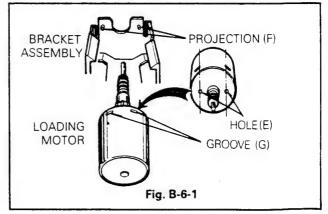


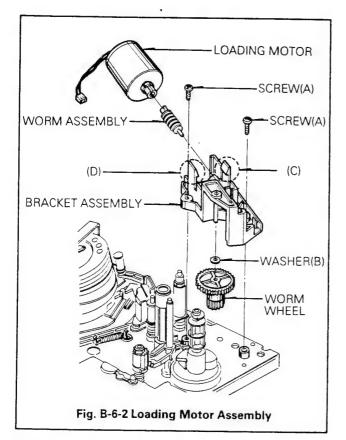
6. Loading Motor Assembly(Fig. B-6-1, B-6-2)

- 1) Remove the Dew Bracket.
- 2) Unplug the connector from the Junction P.C.B Assembly
- 3) Remove two screws(A).
- 4) Remove the worm wheel by pushing it down.
- 5) Remove the Loading Motor Assembly by pushing(C) and (D) outward.
- 6) Remove the worm Gear Assembly from the Loading Motor Assembly by pushing it.

* NOTE

- 1) When reassembling
- ① Make sure that the worm assembly is seated in the axis of Loading Motor.
- ② Two grooves(G) of Loading Motor should be turned up and two projections(F) of Bracket Assembly should be seated in each at the two holes(E)(Fig. B-6-1).
- 3 Take notice of the polarity of the Loading Motor.







- 1) Remove the Dew Bracket.
- 2) Remove the Pinch Lever Assembly.
- 3) Remove the Take-Up Lever by pushing the hook(A) outward.

* NOTE

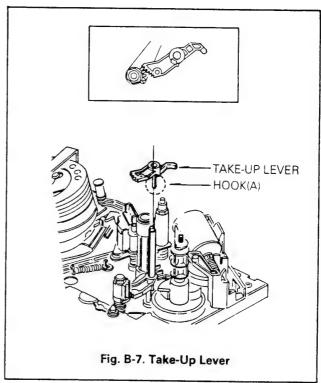
- 1) When disassembling and reassembling
- ① When disassembling the Take-Up Lever, be careful not to break the Hook(A).
- When reassemble the Take-Up Lever, align the appendant Gear of Lever Take-Up with the appendant Gear of Takeup Arm
- ③ Reassemble the Take-Up Lever completely by hooking (A)

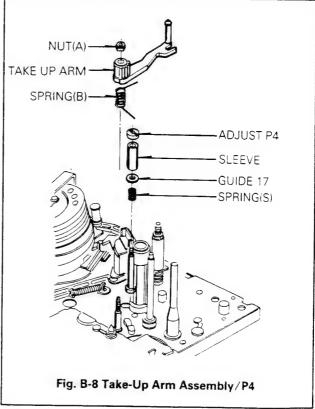
8. Take Up Arm Assembly(Fig. B-8)

- Remove the Dew Bracket, Pinch Gear, and the Take-Up Lever
- 2) Remove one Nut(A).
- 3) Remove the Take-Up Arm Assembly by lifting it up.
- 4) Remove the spring(B).

* NOTE

- 1) When reassembling
- Align the Gear of Take-Up Arm with the Gear of Take-Up Lever.





9. P4 Assembly(Fig. B-8)

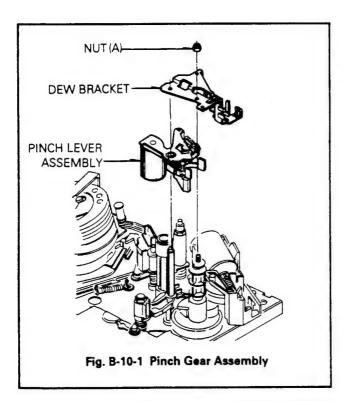
- 1) Remove the Adjust P4.
- 2) Remove the Sleeve.
- 3) Remove the Guide 17.
- 4) Remove the Spring

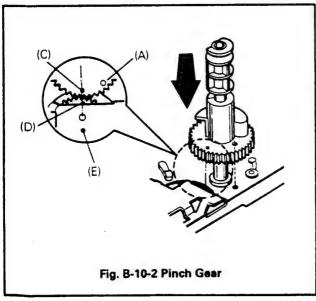
10. Pinch Gear

- 1) Remove one Nut(A) and then remove the Dew Bracket.
- 2) Remove the Pinch Lever Assembly by lifting it up.
- 3) Remove the Loading Motor Assembly.
- 4) Remove the Take Up Lever.
- 5) Remove the Pinch Gear Assembly.

* NOTE

1) When reassembling, align the hole(A) of Pinch Gear with the hole of chassis, and the hole(C) of Pinch Gear with the groove(D) of the P.C.Gear. Hole(E) of chassis should be aligned with the hole of P.C.Gear.





11. FE(Full Erase) Head Assembly(Fig. B-11) (Optional Item)

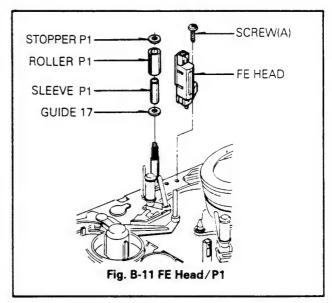
- 1) Unplug the connector.
- 2) Remove one screw(A), and then remove the FE Head.

* NOTE

- 1) When disassembling and reassembling
- ① Do not touch the Video Head Tip with fingers or tools.

12. P1 Assembly(Fig. B-11)

- 1) Remove the Stopper P1.
- 2) Remove the Roller P1.
- 3) Remove the Sleeve P1.
- 4) Remove the Guide 17.

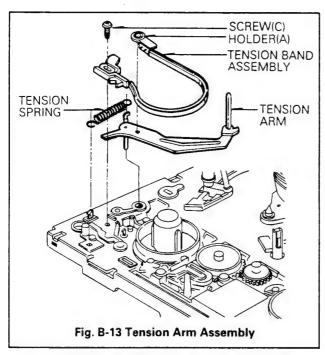


13. Tension Arm Assembly(Fig. B-13)

- 1) Remove one screw(C).
- 2) Remove the Tension Spring.
- Remove the Tension Arm Assembly by pushing hooks outward with the Deck Mechanism Assembly turned over.
- 4) Remove the Tension Band Assembly from the Tension Arm by pushing Hooks of Holder(A).

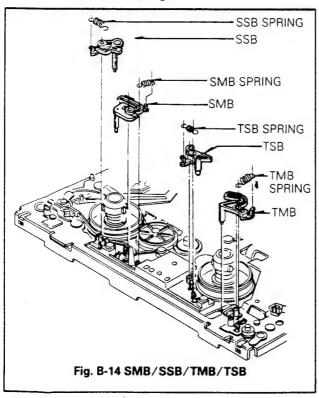
. NOTE

 When disasembling and reassembling, give special attention to the disassembling and reassembling of Tension Arm Assembly, because the Tension Band is interposed between the Supply Reel and the Soft Brake.



14. Supply Soft/Supply Main/Take-Up Soft/Take-Up Main Brake Assembly

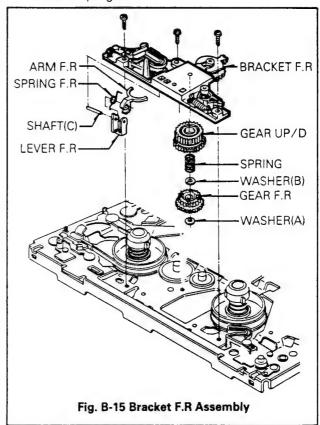
- 1) Supply Soft Brake(SSB)
 - ① Remove the SSB Spring.
 - ② Remove the SSB.
- 2) Supply Main Brake(SMB)
 - ① Remove the SMB Spring.
 - 2 Remove the SMB.
- 3) Take Up Soft Brake(TSB)
 - ① Remove the TSB Spring.



- Remove the TSB.
- 4) Take-Up Main Brake(TMB)
 - ① Remove the TMB Spring.
 - 2 Remove the TMB.

15. Bracket F/R(FF/Rewind) Assembly (Fig. B-15)

- 1) Remove the TMB.
- 2) Remove the Washer(A), and then remove the Gear F.R.
- Remove three screws, and then remove Bracket F/R Assembly from the Deck Mechanism Assembly.
- 4) Remove the Washer(B), and spring Up/D, and then remove the Gear Up/D.
- 5) Remove the shaft(C), and then remove the Arm F.R, Lever F.R and Spring F.R.



16. Supply Reel Assembly(Fig. B-16)

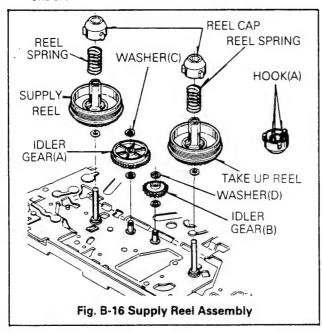
- 1) Remove the Tension Band Assembly.
- 2) Remove the Bracket F/R.
- 3) Lift up the Supply Reel Assembly from the Deck Mechanism Assembly.
- 4) Separate the Reel Cap from the Supply Reel by taking it out of Hooks(A).

17. Take Up Reel Assembly(Fig. B-16)

- 1) Remove the TMB(Fig. B-14)
- 2) Lift up the Take-up Reel Assembly from the Deck Mechanism Assembly.
- 3) Separate the Reel Cap and Spring from the Take-Up Reel by releasing Hooks(S).

* NOTE

- 1) When reassembling
- Make sure that the Supply and Take Up Reel are not exchanged.
- ② After reinstalling the Supply Reel Assembly, Adjust the Tension.

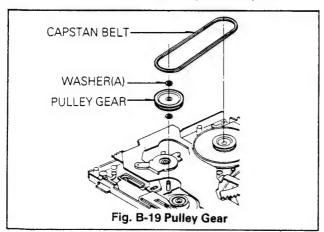


18. Idler Gear(A), (B)(Fig. B-16)

- After removing the Supply Reel, and supply Main Brake Assembly, remove the washer(C) and remove the Idler Gear(A).
- 2) Remove the Washer(D) and remove the Idler Gear(B).

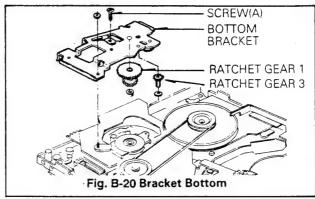
19. Pulley Gear Assembly (Fig. B-19)

- 1) Turn over the Deck Mechanism Assembly.
- 2) Remove the Capstan Belt.
- 3) Remove the Washer(A) and lift up the Pulley Gear.



20. Bracket Bottom Assembly (Fig. B-20)

- 1) Remove one screw(A).
- Remove one Hexagonal Nut, and then lift up the Bracket Bottom Assembly.
- 3) Remove one Washer, and lift up the Ratchet Gear 1.



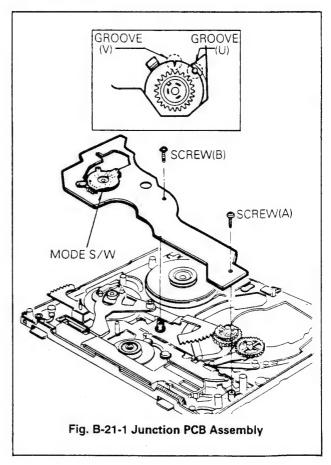
4) Remove the washer, and then remove Ratchet Gear 3 from the Bottom Bracket.

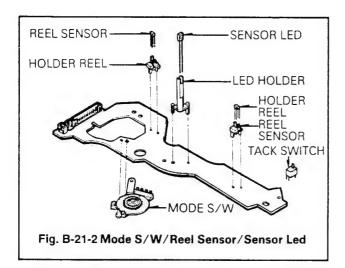
21. Junction PCB(Printed Circuit Board) Assembly (Fig. B-21-1)

- 1) Remove the Bottom Bracket Assembly.
- Remove two screws(A),(B) and then remove the Junction P.C.B Assembly.
- 3) Remove the Mode Switch from the Junction P.C.B Assembly.
- Remove the Reel Sensors, Sensor LEDS and each holder from the Junction P.C.B (Fig. B-21-2).

* NOTE

 When reassembling the Mode Switch, the groove(V) and (U) of Mode Switch should be at their original place in the Eject Mode.



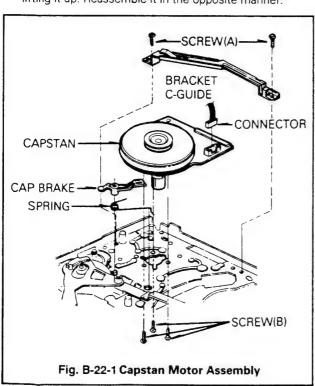


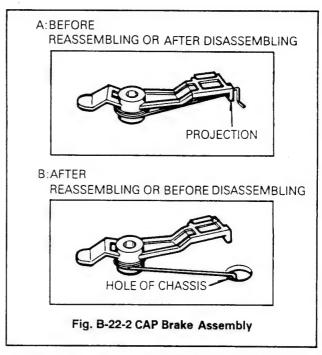
22. Capstan Motor and Brake Assembly (Fig. B-22-1)

- 1) Remove the Junction P.C.B Assembly
- Hook the end of Capstan Brake Spring to the projection of Capstan Brake and then remove the Capstan Brake Assembly by lifting it up(Fig. B-22-2).
- 3) Remove two Screws(A), and then remove the Bracket C-Guide.
- 4) Remove the Connector.
- 5) Remove three screws(B), and then remove the Capstan Motor Assembly from the Deck Mechanism Assembly.

* NOTE

1) When disassembling and reassembling, hook end of the spring on the projection of Cap-Brake and remove it by lifting it up. Reassemble it in the opposite manner.



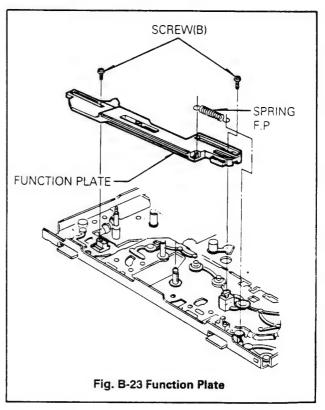


23. Function Plate(Fig. B-23)

- 1) Remove two screws(B) in Eject Mode.
- 2) Remove the Function Plate Spring.
- 3) Remove the Function Plate.

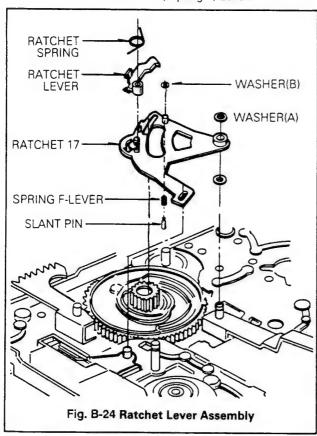
* NOTE

 When reassembling the groove of Lower part of Function Plate should be aligned with the shaft of Tension Lever Assembly (Fig. B-29).



24. Ratchet Lever Assembly(Fig. B-24)

- 1) Remove the Function Plate.
- 2) Remove the Junction P.C.B Assembly.
- 3) Remove the Washer(A) and then remove the Ratchet Lever Assembly.
- 4) Remove the Ratchet Spring.
- 5) Remove the Ratchet Lever from the Ratchet 17 by lifting it up when the hook of it is aligned with the hole of Ratchet 17 while rotating it counterclockwise direction.
- 6) Remove the Washer(B), and turn over the Ratchet 17 and then remove the Slant Pin, Spring F, Lever.

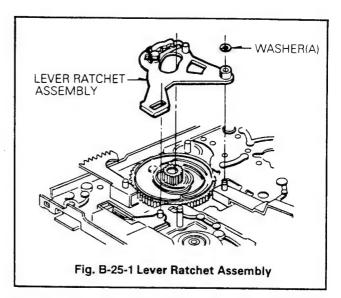


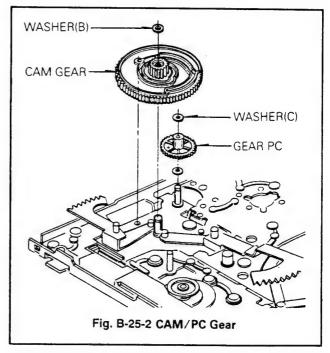
25. Cam Gear/Rack Gear T/Rack Gear FL (Fig. B-25-2)

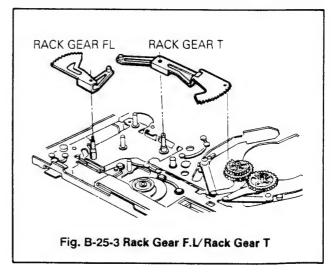
- 1) Remove the washer(A) and remove the Ratchet Lever Assembly. (Fig. B-25-1).
- 2) Remove the washer(B), and then remove the Cam Gear (Fig. B-25-2).
- 3) Remove the Rack Gear F.L. (Fig. B-25-3).
- 4) Remove the Rack Gear T. (Fig. B-25-3).

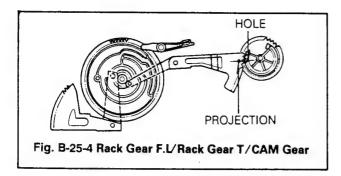
* NOTE

- 1) When reassembling
- Align the Projection of Rack Gear T with the hole of Loading Gear.
- ② Drive the Rack Gear F.L in the direction of arrow(D).
- ③ Hole of Cam should be aligned with the hole of chassis, and the groove(►) of Cam Gear should be aligned with the hole of PC Gear (Fig. B-26).







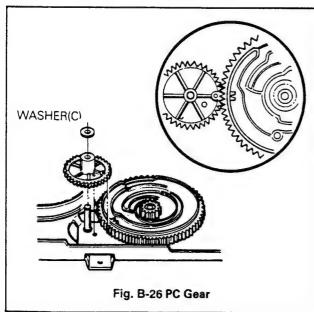


26. PC Gear(Fig. B-26)

- 1) Remove the washer(C).
- 2) Remove the P.C Gear by lifting it up.

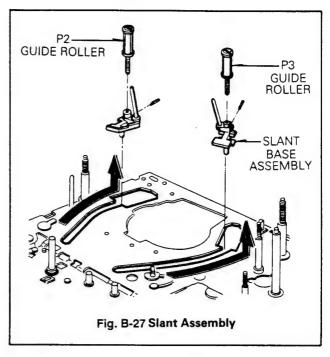
* NOTE

- 1) When reassembling
- The Groove of PC Gear should be aligned with the groove(V) of Cam Gear, and another hole of it should be aligned with the hole of chassis (Fig. B-26).



27. P2 and P3 Slant Assembly (Fig. B-27)

- After finishing the disassembly of Drum Assembly, remove the P2 and P3 Slant Assembly by turning the Loading Gear(R) in the clockwise direction. (Loading direction)
- 2) Loosen the set screws.
- 3) Remove the Roller Guide from the Slant Base.



* NOTE

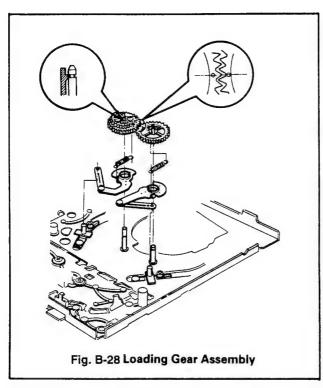
- 1) When disassembling and reassembling
- ① Use a Hexagonal wrehch to remove set screw.
- ② Take notice that the P2 and P3 Slant Assembly should not be changed from their original place.

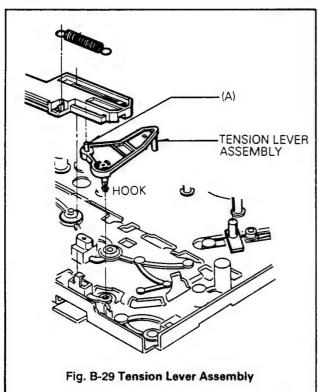
28. Loading Gear Assembly(L),(R) (Fig. B-28)

- 1) Remove the Cam Gear, Rack-T.
- 2) Remove the P2 and P3 Slant Assembly by turning the Loading Gear(L),(R) in the Loading direction
- Lift up the Loading Gear Assembly(L),(R) from the Deck Mechanism Assembly.
- 4) Remove the Spring Load(L),(R).
- 5) Separate the Loading Gear(L), (R) from Lever Load(L),(R).

* NOTE

- 1) When reassembling
- ① Make sure that the Loading Gear(L) and (R) should not be changed from their original place.
- ② Align the groove of Loading Gear(L),(O) with the groove of Gear(R),(O).





29. Tension Lever Assembly (Fig. B-29)

- 1) Remove the Function Plate.
- Remove the Tension Lever Assembly by pushing hooks inward.

* NOTE

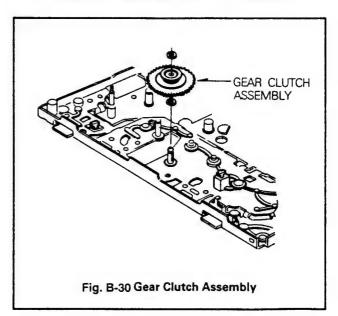
- 1) When reassembling
- ① Set the part(A) of Tension Lever Assembly in the groove of Lower part of Function Plate.
- ② After reinstalling the Tension Lever Assembly, adjust the Tension Post and the Tension with a Tension Cassette.

30. Clutch Gear Assembly (Fig. B-30)

- 1) Remove the Pulley Gear.
- 2) Remove the Plate Function.
- 3) Remove the washer(A), and then remove the Clutch Gear Assembly.

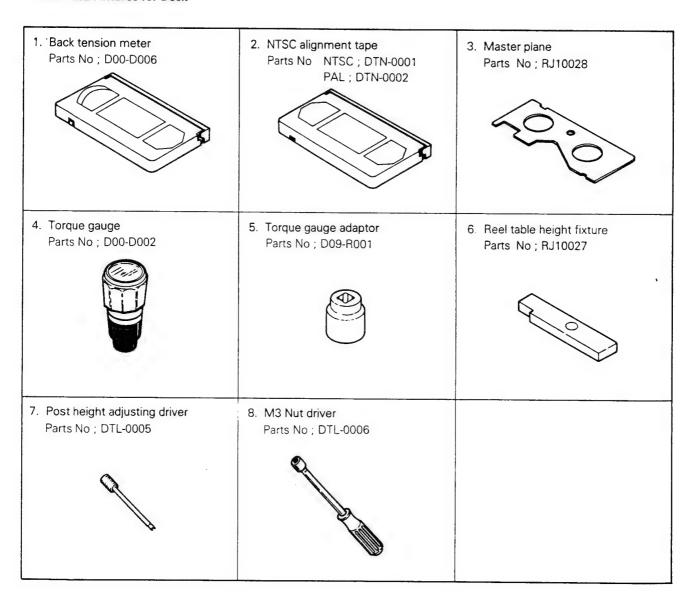
* NOTE

- 1) When reassembling
- ① Do not disassemble the Clutch Gear Assembly any futher, because Torque adjustment is not adjustible.



MECHANISM ADJUSTMENTS

• Tools and Fixtures for Deck



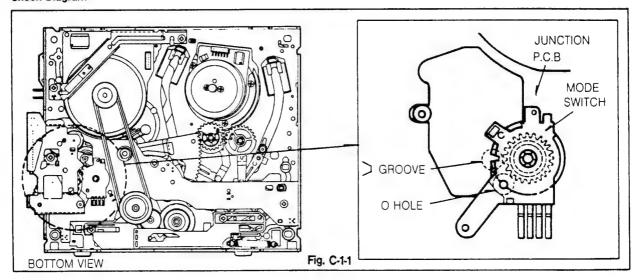
1. Mechanism State Switch (Mode Switch) Check

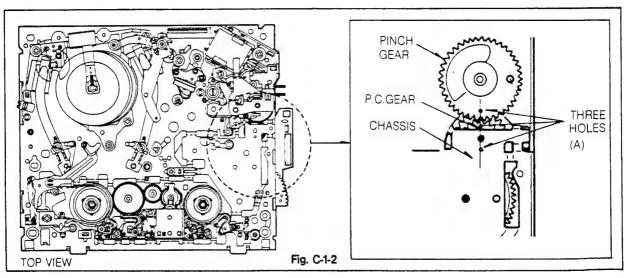
Purpose: To detect accurately the mechanism state and prevent the mechanism from malfunction.			
Test Equipment/Fixture VCR State Check Point			
Blank tape	Eject Mode (with cassette ejected)	 Mechanism state switch (Mode Switch and Cam) 	

Check Procedure

- 1) Turn the VCR on and eject the tape by pressing eject button.
- Remove the Cabinet Top, the Main P.C.Board and the CST Housing. Then push the CST IN/OUT switch (Loca. #137) and eject button at the same time.
- 3) Turn the worm (Loca. #082) of Loading Motor Assembly (Loca. #A10) to the left side (counterclockwise) to align the three holes (A) of the Pinch Gear, the P.C.Gear and the Chassis.
- 4) Remove the Bottom Cover and then check that the groove (V) and the hole (O) of Mode S/W are aligned each other. If the above alignment is not obtained, adjust as follows.
 - (1) Remove the Bracket Assembly Bottom and the Capstan Belt in the state of power off.
 - (2) Remove the P.C.B Assembly, align the groove (V) and the hole (O) of Mode S/W each other and then reassemble the P.C.B Assembly.
 - (3) Turn the power on and perform the various operations to check that the loading and the unloading are correct.

Check Diagram





2. Preparation for Adjustment(To set VCR to the loading state without inserting a cassette)

- 1) Unplug the power cord from the AC outlet.
- 2) Remove the Cabinet Top and Front Loading mechanism.
- 3) Plug the power cord into the AC outlet.
- Turn the VCR on and push the tact switch in the PCB Assembly.

The VCR can accept input of each mode in this case. However the rewind and review operation cannot be performed for more than a few seconds because the take-up reel table is in the stop state and reel pulses cannot be detected.

(NOTE)

Always return the VCR to the Front Loading Mechanism Assembling State in the following order after the above operations have been performed.

- 1) Press the Eject button after turning the power on.
- 2) Wait for about 10 seconds until searching out the assembly position.
- 3) Assemble the Front Loading Mechanism and connect the Front Loading Mechanism Connector.
- Refer to the "Front Loading Mechanism Disassembly" which is described previously.

3. Reel Table Height Adjustment

Test Equipment/Fixture	Preparation for adjustment	VCR State	Adjustment Points
Master Plane	Remove the Front Loading Mechanism Mount the Master Plane		Washer under the Supply and Take-Up Reel Tables.
• Reel Table Height Fixture	and place the Reel Table Height Fixture on it.		

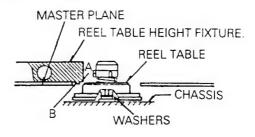
Adjustment procedure

- 1) Check that the Reel Table is between sections A and B of the Reel Table Height Fixture.
- If the table is not between sections A and B of the Fixture, replace the washers(two types, 0.3mm and 0.5mm thick) in the Reel Table or adjust them.

CAUTION

When the Tension Arm and Tension Band are removed, adjust the tension post position and tension after reinstalling them.

Adjustment Diagram



SUPPLY AND TAKE-UP REEL TABLE

Fig. C-3

4. Tension Post Position and Tension Adjustment

Purpose: To make the tension of tape constant so that the contact between the video heads and tape is stabilized.

Test Equipment/Fixture	VCR State	Adjustment Point
● Tension Meter (Tension adjustment)	Play without cassette and with a Tension Meter	• Holder Band(A)

Adjustment Procedures

(Position Adjustment)

- Perform loading without inserting a tape and loosen the screw that attaches the Band Holder(B) to the D-Deck Mechanism Assembly.
- 2) Insert the (—)type driver between the Band Holder(B) and the "V" groove of the chassis.
- 3) Move the Band Holder(B) right and left and align the center of tension post with the center of P1.
- 4) Tighten the screw that attachs the Band Holder(B) to Deck Mechanism Assembly.

(Tension Adjustment)

- Play the Tension Meter and read the Tension Meter:35g·cm±2.5g·cm(reference value).
- 2) If the result is abnormal.
 - over the standard:loosen the screw, move the Band Holder(B) right a little and then tighten the screw and make sure that this adjustment is correct.

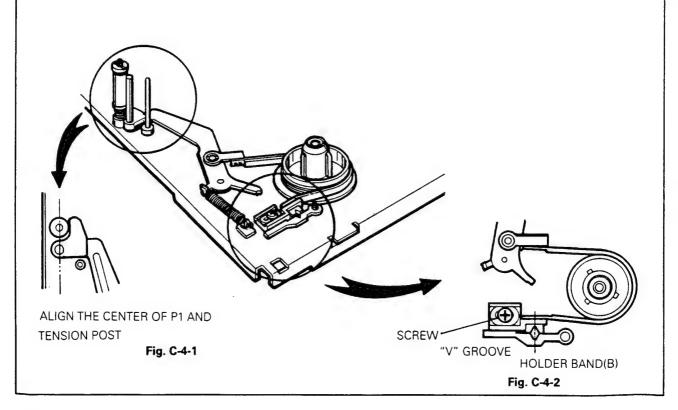
(2) below the standard: loosen the screw, move the Band Holder(B) left a little and then tighten the screw and make sure that this adjustment is correct.

CAUTION

The range of movement of Band Holder(B) should be within ± 1.5 mm while being adjusted.

If the range is over, you should recheck the Reel Brake, Tension Arm and Spring.

Adjustment Diagram



5. Checking Torque

Purpose: It is necessary to check the tension, torque and compression force at the tape take-up section and moving section to make the tape run smoothly and satisfy the basic performance of the VCR. Check these if the tape does not run smoothly or the tape speed is abnormal.

Test Equipment/Fixture	VCR state		
●Torque Gauge	 Set the VCR to each operation mode without inserting		
●Torque Gauge Adaptor	a cassette. (See '2 Preparation for Adjustment')		

ltem	VCR Operation mode	Measurement Reel	Measurement Values	
Main brake torque,	Eject	Supply and take-up reels	600g.cm or more	
Slack removal torque	Unloading(power off)	Supply reel	110~200g·cm	
Fast forward torque	Fast forward	Take-up reel	400g·cm or more	
Rewind torque	Rewind	Supply reel	400g-cm or more	
Play take-up torque	Play	Take-Up reel	90~130g·cm	

Checking Method

The values are measured by using a torque gauge and torque gauge adaptor with the torque gauge fixed.

Note: This value is measured when the VCR is shifted in the unloading direction from the fast forward or rewind mode and quick braking is applied to both Reel Tables.

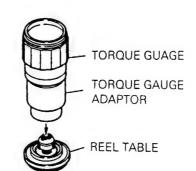


Fig. C-5

6. Guide Post Height Adjustment

Test Equipment/Fixture	VCR State	Adjustment Point
Master Plane Blank Tape Reel Table Height Jig Post Height Adjusting Driver M3 Nut Driver	 Mount the Master Plane and place the Reel Table Height Jig on it. 	Nuts on Impedance RollerGuide Post

- Set the clearance between the bottom of the P1 Roller Flange and under cut of Reel Table Height Fixture to 0~0.1mm(Fig. C-6-1).
- 2) Set the clearance between the bottom of the Guide Post upper flange and top of the Reel Table Height Jig to 0~0.2mm(Fig. C-6-2).
- Load and run the Tape and check that the tape does not ride over the upper and lower flanges of the guide post.
- 4) If the tape rides over either flange, adjust the height of P1 Roller and Guide Post as follows(Fig. C-6-3).
 - If the tape rides over the upper flange, turn the nut counterclockwise.
 - If the tape rides over the lower flange, turn the nut clockwise.

Adjustment Diagrams

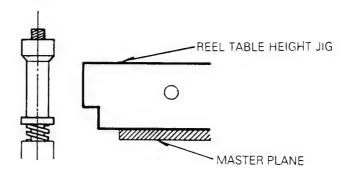
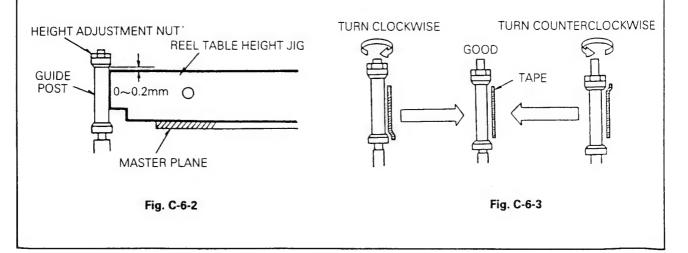


Fig. C-6-1



7. Guide Roller Height Adjustment

Purpose: To regulate the height of tape so that the bottom of tape runs along the tape guide line on the lower drum.

A. Coarse Adjustment

Test Equipment/Fixture	VCR State	Adjustment Point
 Master Plane Reel Table Height Fixture Hexagonal Wrench Post Height Adjusting Driver 	 Mount the Master Plane and place the Reel Table Height Fixture on it. 	 Roller Guide Height Adjustment Screws on the Supply and Take-Up Guide Rollers.

Adjustment Procedure

- 1) Align the bottom of the Guide Roller's upper flange and the top of the Reel Table Height Fixture.
- 2) Perform the precise adjustment next.
- 3) When the Guide Roller is damaged, release the Guide Roller retaining screw and then replace the Guide Roller.

Adjustment Diagram



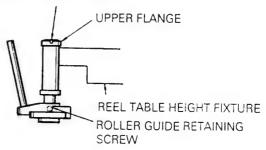


Fig. C-7-1

B. Precise Adjustment

Test Equipment/Fixture	Test Equipment Connection Points	VCR State	Adjustment Point
 Oscilloscope Post Height Adjusting Driver Alignment Tape Hexagonal wrench 	CH-1:PB RF Envelope CH-2:SW 3-Hz Head Switching Output Point RF Envelope Output Point	● Play an alignment tape	 Guide Roller Height Adjustment Screws.

Adjustment Procedure

- 1) Play an alignment tape after connecting the probe of the oscilloscope to RF Envelope Output Test Point and Head Switching Output Test Point.
- 2) Tracking control(in PB mode): Center position(When this adjustment is performed after the drum assembly has been replaced, set the tracking control so that the RF output is maximum.)
- 3) Height adjustment screw: Flatten the RF waveform.
- 4) Turn(Move) the tracking control(playback) clockwise and counterclockwise.(to the right and left)
- 5) Check that the drops of RF output are uniform at the start and end.

Waveform Diagrams

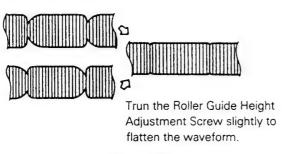
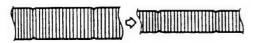


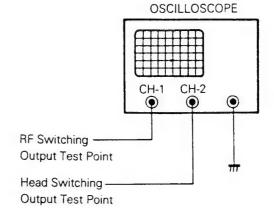
Fig. C-7-2



Tracking control at center Turn(Move) the tracking control to both directions.

Fig. C-7-3

Connection Diagram



8. Audio/Control(A/C) Head Adjustment

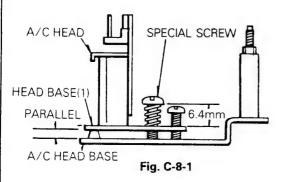
Purpose: To keep the contact between the tape and head so that the specificed track is recorded and played back.

A. Coarse Adjustment

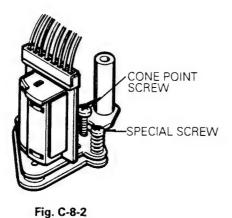
Test Equipment/Fixture	VCR State	Adjustment Points
Master PlaneReel Table Height FixtureM3 Nut Driver	Mount the Mater Plane and place the Reel Table Height Fixture on it.	 Special screw Cone Point Screw for tilt Azimuth Adjustment Screw
Blank tape	● Run the blank tape	●A/C Head Adjuster

Adjustment procedure/Adjustment Diagram

 Tighten the spring section of the special screw so that it protrudes 6.4mm(approx.) over the top of Head Base(1).

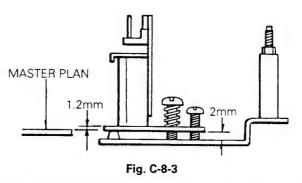


2) Turn the Azimuth Adjustment Screw and Cone Point Screw so that the Head Base(1) and A/C Head Base are parallel.

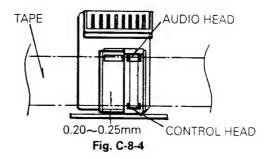


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 Turn the A/C Head Adjuster until the clearance between the Master Plane and Head Base(1) is approx 1.2mm.



- 4) Remove the adjustment fixture, load a blank tape and set the VCR to the play mode.
- 5) Check that there is no conspicuous curling and riding over around the A/C head. If there is conspicuous curling or riding over, readjust the Cone Point Screw, Azimuth Adjustment Screw and A/C Head Adjuster. When the bottom edge of tape is 0.20~0.25mm from the bottom edge of the control head's core, the height of A/C head is ideal.

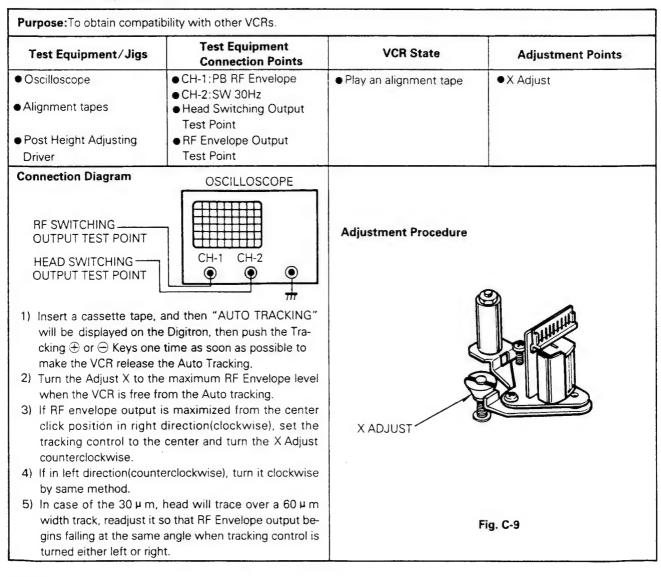


6) Perform the precise adjustment continuously.

B. Precise Adjustment

Test Equipment/Fixture	Test Equipment Connection Point	VCR State	Adjustment Points
OscilloscopeAlignment tapesM3 Nut Driver	● Audio output jack	 Play an alignment tape 1KHz, 7KHz sections 	■ Azimuth Adjustment Screw ■ A/C Head adjuster ■ Cone point screw
jack. 2) Adjust the Azimuth Adjuadjuster and cone point s	scilloscope to audio output stment Screw, A/C Head screw slightly and alternately put is maximum and flat.(mi-	Waveform Diagram	B B B B
alternately so that the Au	dio 7KHz output is maximum.	A:Maximum	BB':Minimum

9. X-Value Adjustment



10. Adjustment after Replacing Drum Assembly(Video Heads)

Test Equipment/Fixture	Test Equipment Connection Points	VCR State	Adjustment Points
 Oscilloscope Post Height Adjusting Driver Alignment tape Blank tape M3 Nut Driver 	Checking the flatness CH-1:PB RF Envelope CH-2:SW 30Hz Head Switching Output Point RF Envelope Output Point	● Run the blank tape ● Play an alignment tape	 Guide Rollers Precise Adjustment Switching point Tracking point X-Value
Connection Diagram		Waveform Diagram	
RF SWITCHING ————————————————————————————————————	OSCILLOSCOPE O O O	V ₁ V ₂	
er Guide is curling or cre Guide. 2) Check the RF envelope of	k and adjust whether the Roll- easing tape around the Roller output flatness and adjust the e playing an alignment tape.	V₁/V MAX ; V₃/V MAX ; RF ENVELO	> 0.8
4) Check that RF envelope tracking is at the center	output is maximum when the	Fig	_J . C-10

11. Maintenance/Inspection Procedure

(1) Required Maintenance

The recording density of a VCR is much higher than that of an audio tape recorder. VCR components must be very precise, at tolerances of 1/1000mm, to ensure compatibility with other VCRs. If any of these components are worn or dirty, the symptoms will be the same as if the part is defective. To ensure good picture, periodic inspection and maintenance, including replacement of worn out parts and lubrication, are necessary.

(2) Scheduled Maintenance

Schedules for maintenance and inspection are not fixed because they vary greatly according to the way in which the customer uses the VCR, and the environment in which the VCR is used.

But, in general home use, a good picture will be maintained if the inspection and maintenance is made every 1,000hours. The table below shows the relation between time used and inspection period.

Table 1

When inspection is necessary Average hours used	About 1 year	About 18 months	About 3 years
One hour			
Two hours	//////	772	
Three hours	////		

(3) Check before starting repairs

The following faults can be remedied by cleaning and oiling. Check the needed lubrication and the conditions of cleanliness in the unit.

Check with the customer to find out how often the unit is used, and then determine that the unit is ready for in spection and maintenance. Check the following parts.

Table 2

Phenomenon	Inspection
Poor S/N, no color	Dirt on video head or
	worn video head
Tape does not run or tape	Dirt on pressure roller, belt
is slack	or flywheel belt
Vertical jitter, horizontal	Dirt on video head or in
jitter	tape transport system
Color beats	Dirt on full-erase head
Low volume or sound	Dirt on audio/control head
distorted	
Fast forward or rewind is	Dirt on belt
not done or rotation is	
slow	

(4) Supplies Required for Inspection and Maintenance

- (1) Greases Kanto G-31(or equivalent)
- (2) Alcohol(or freon)
- (3) Cleaning Patches

5) Maintenance Procedure

5-1) Cleaning

(1) Cleaning video head

First use a cleaning tape. If dirt on head is too stubborn to remove by tape, use the cleaning patch. Coat the cleaning patch with alcohol or freon to the point indicated. Touch the cleaning patch to the head tip and gently turn the head(rotating cylinder) right and left

(Do not move the cleaning patch vertically and make sure that only the buckskin on the cleaning patch comes into contact with the head. Otherwise, the head may be damaged.)

Thoroughly dry the head. Then run test tape. If alcohol or freon remains on the video head, the tape may be damaged when it comes into contact with the head surface.

(2) Clean the tape transport system and drive system, etc, by wiping with a cleaning patch wetted with alcohol of freon.

Note:

- ① It is the tape transport system which comes into contact with the running tape. The drive system consists of those parts which move the tape.
- ② Make sure that during cleaning you do not touch the tape transport system with the tip of a screw driver and no force is applied to the system that would cause deforming.

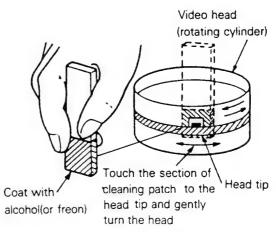


Fig. C-11-1

5-2) Greasing

(1) Greasing guidelines

Apply grease, with a cleaning patch. Do not use excess grease. It may come into contact with the tape transport of drive system. Wipe any excess and clean with cleaning patch wetted in alcohol or freon.

 Periodic greasing Grease specified locations every 5,000hours.

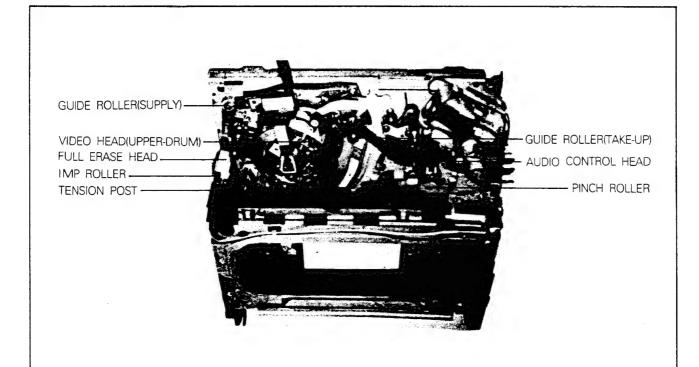


Fig. C-11-2 Tape Transport System

Phenomenon	Inspection	Replace ment				<u></u> \$@`°	0 0	
Color beats	Dirt on full-erase head	0	→ ①	©				P
Poor S/N no color	Dirt on video head	0	→ ②	0				
Vertical jitter	Dirt on video head Dirt in tape transport system	0	→③	©—				
Low volume, Sound distorted	Dirt on audio/control head	0	→ ④	0~	°			
Tape does not run. Tape is slack	Dirt on pinch roller	0	→ ⑤					

Fig. A-12 Top View of Mechanism

Phenomenon	Inspection Location	Replace ment	©~	
Do not fast forward or rewind, or rotation is slow Tape does not run	Dirt on reel belt	○ → ⑤	©-	
Slack tape			©<	
			©—	

Fig. A-13 Bottom View of Mechanism

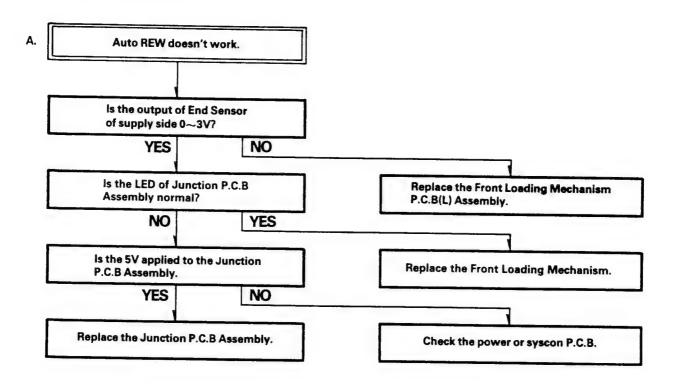
Note: If locations marked with O do not operate normally after cleaning, check for wear and replace.

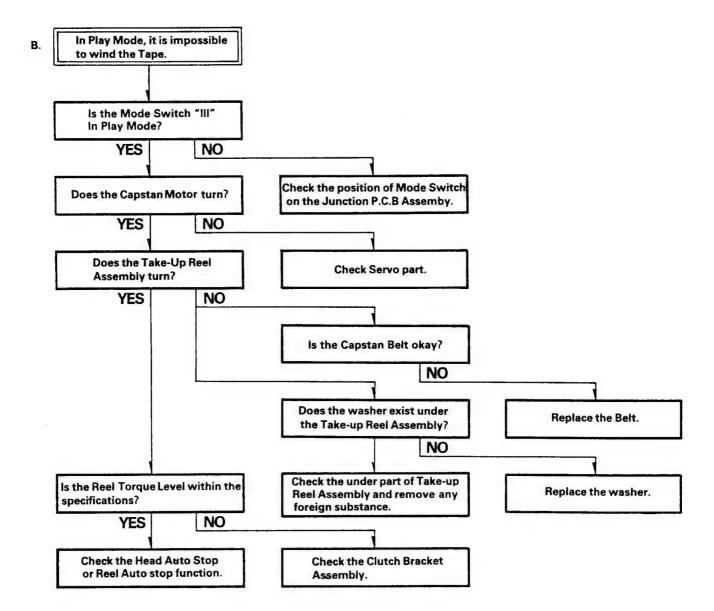
See the EXPLODED VIEWS at the end of this manual as well as the above illustrations for the sections to be lubricated and greased.

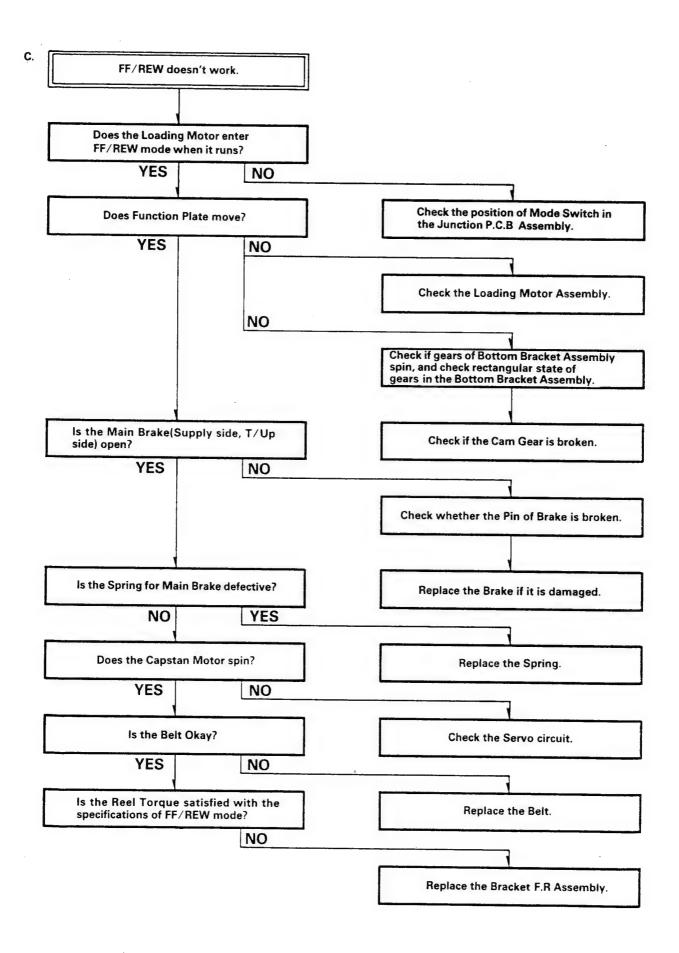
©:Grease

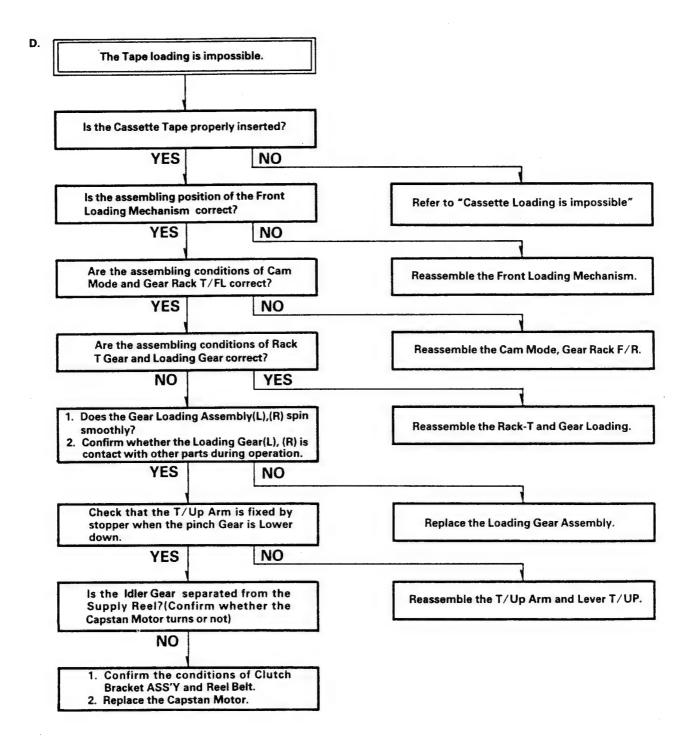
MECHANISM TROUBLESHOOTING GUIDE

1. Deck Mechanism

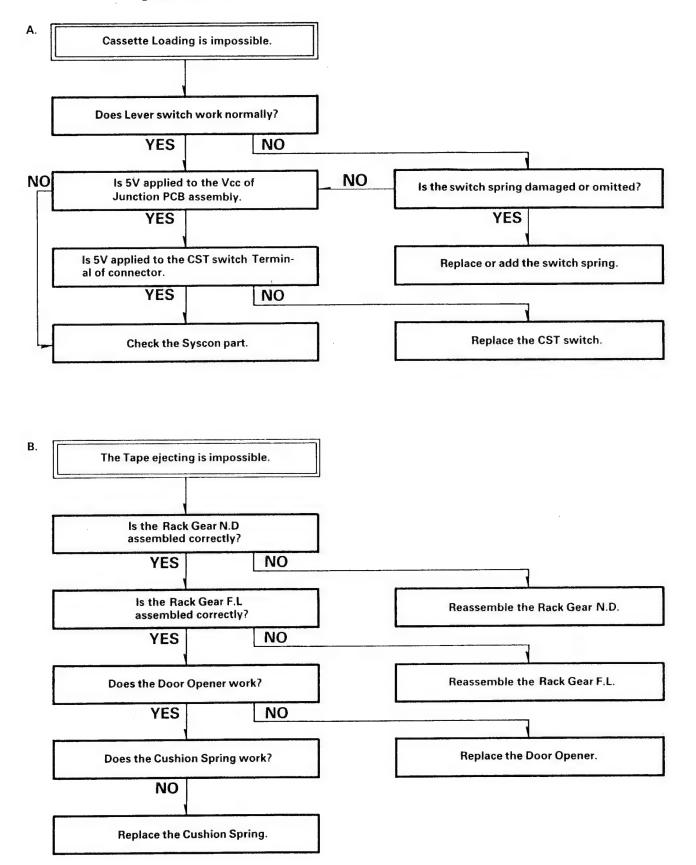


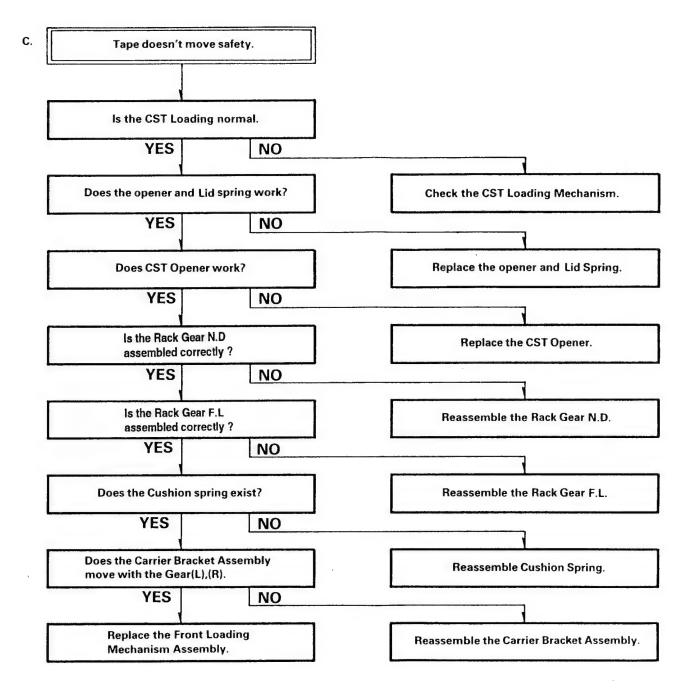


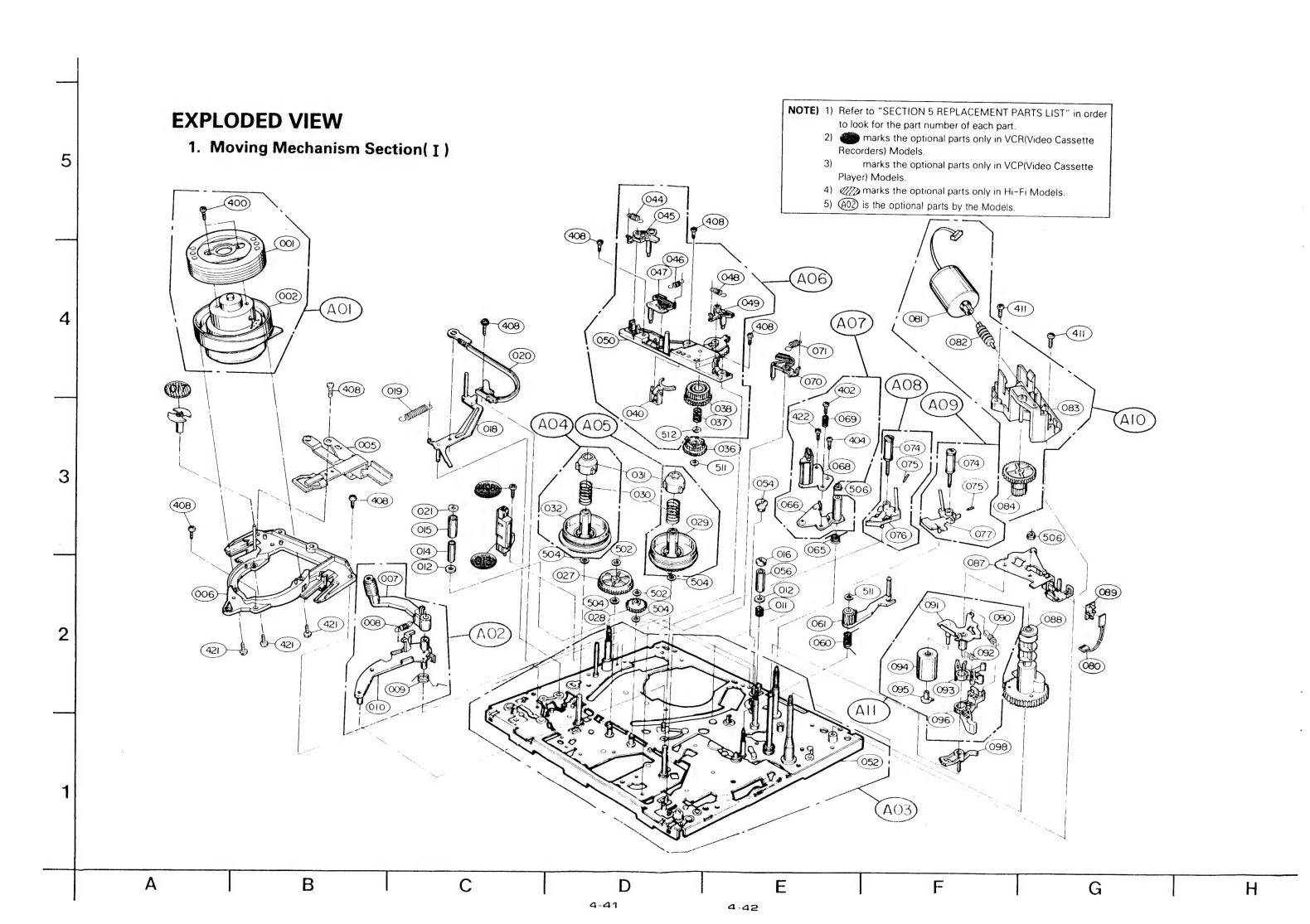


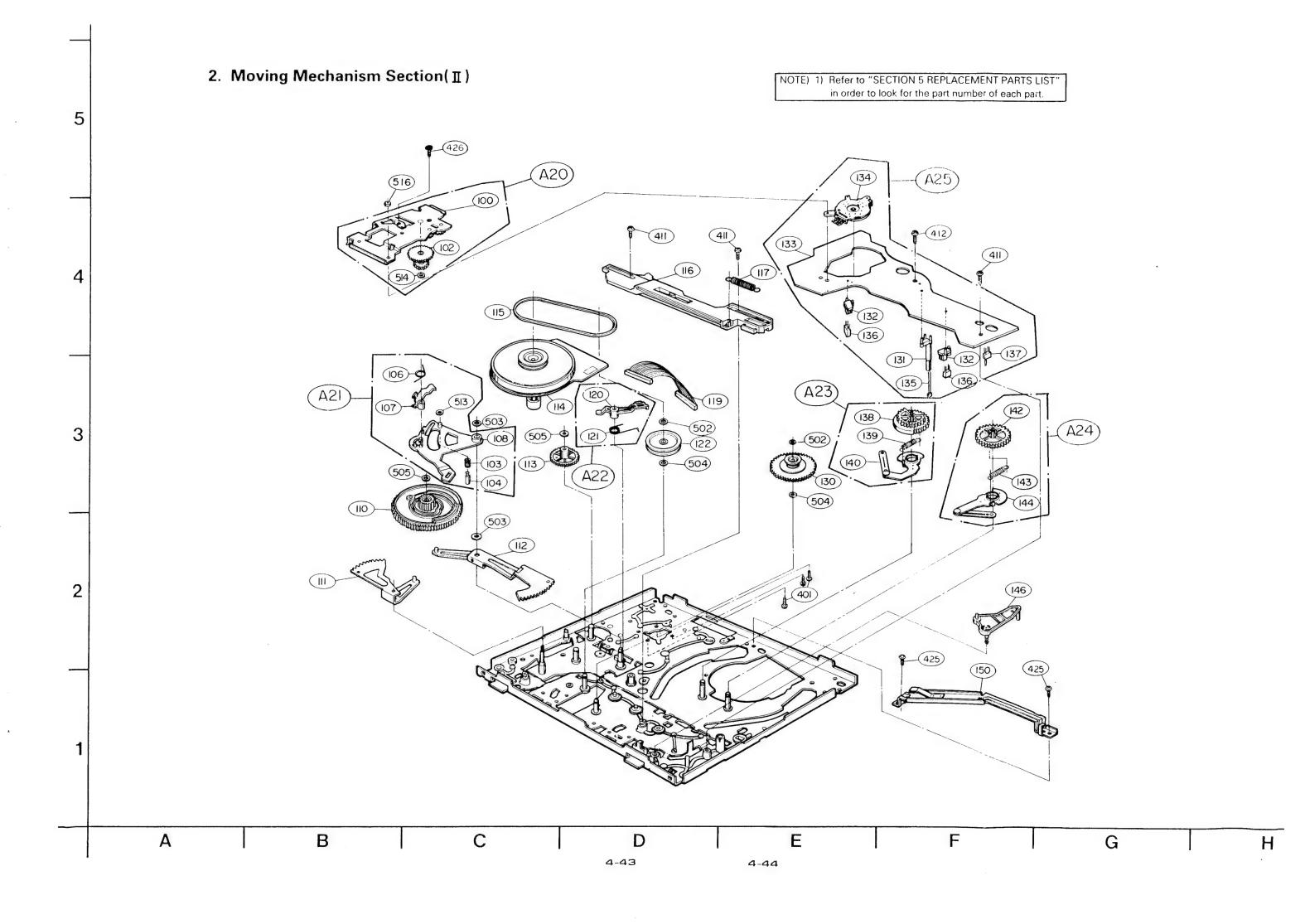


2. Front Loading Mechanism









3. Front Loading Mechanism Section NOTE) 1) Refer to "SECTION 5 REPLACEMENT PARTS LIST" in order to look for the part number of each part. (A30) 204) (A34) (A32)

4-45

1

4-46

SECTION 4-2. 8 mm DECK MECHANISM

PERIODICAL CHECK AND MAINTENANCE

For the normal operation and the protection of Tape, the periodical checking and maintaining is required like the unit.

Perform the following steps after the adjustment without the used time.

1. ROTARY DRUM ASSEMBLY CLEANING

Stick the smooth swab moistened with the cleaning water fast to the rotary Drum Slightly, and then rotate the Rotary Upper Drum with a finger to the counter-clockwise slowly.

NOTE:

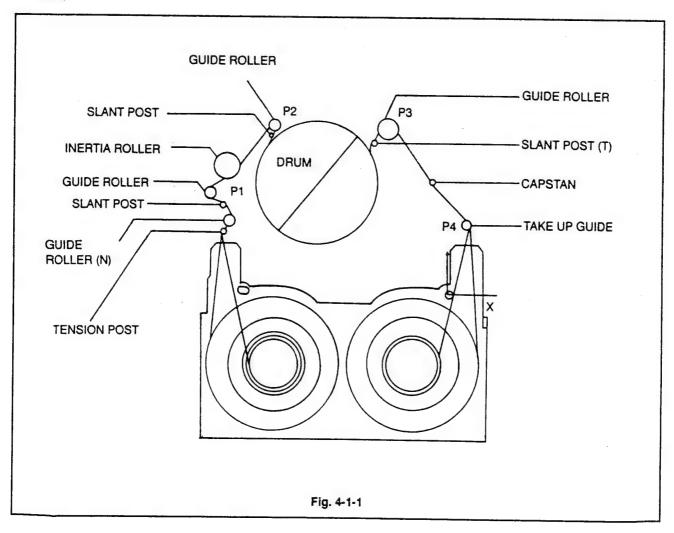
Be careful so the Motor is not to rotate the Drum and not to rotate to the clockwise. Do not use the swab moistened with the cleaning water to the Head Vertically.

2. TAPE LOADING COURSE CLEANING

Set the Cassette Compartment to the Eject State or remove it, and then wipe the Tape loading Course (No. 1 Guide~No. 7 Guide Capstan Shaft, Pinch Roller) with the Chamois Leather Moistened in cleaning water.

3. DRIVE SYSTEM CLEANING

Wipe the Drive System (Timing Belt, Surface of Reel Table etc.) with the Chamois Leather moistened in cleaning water.



Check Parts		Time (Hours) (H)									Remarks	
		500	1,000	1,500	2,000	2,500	3,000	3,500	4,000	4,500	5,000	ricinarks
Cleaning and Demag- netizing	Tape path surfaces Cleaning	0	0	0	0	0	0	0	0	0	0	Be careful about oil
	Rotary drum assembly Cleaning and demagnetizing	0	0	0	0	0	0	0	0	0	0	Be careful about oil
	Relay belt	_	☆	_	☆	-	☆	-	☆	_	☆	
Drive System	Capstan shaft	-	0	-	0	_	0	_	0	_	0	Be careful about that the Oil do not drop on the surface of Tape Path
System	Idler pulley axle	_	0	_	0	_	0	-	0	-	0	
	Loading Motor	_	☆	-	☆	-	☆	_	☆	-	☆	
	Abnormal noise	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	
Perfor- mance	Brake tension Measurement	-	☆	_	☆	_	☆	_	☆	-	☆	
Check	Brake system	_	☆	_	☆	_	☆	_	☆	_	☆	
	FWD, RVS torque Measurement	-	☆	-	☆	-	☆	-	☆	-	☆	

NOTE:

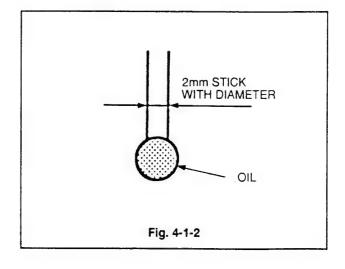
During checking the Unit, refer the Time Table above for the parts change etc.

Oiling:

- Use the regular Oil always.
 (If the unregular oil is used, the Unit may get demaged.)
- Apply the clean oil on the position used the shaft bearing.
- "Oil 1 drop" means the quantity of degree hanged to the end of 2mm Stick with diameter. (Refer to Fig. 4-1-2)

Grease:

• Use the regular Grease.

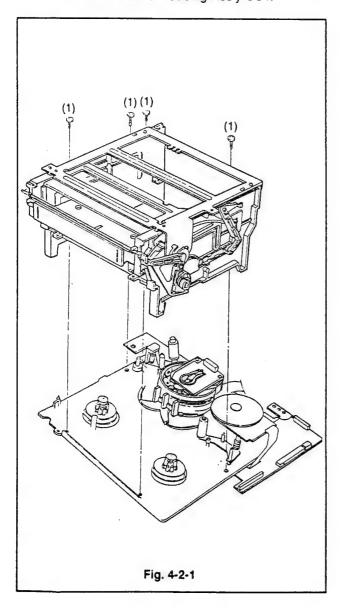


DECK MECHANISM DISASSEMBLY AND REASSEMBLY

1. Front Loading Mechanism

1-1. Housing Ass'y Disassembly

- 1) Disassembly (Fig. 4-2-1)
 - (1) Set the unit to the ULC Mode (Unloading Mode).
 - (2) Remove 4 Screw(1) on the upper part and then remove the Housing Ass'y CST.



2. DC MOTOR (Capstan motor) ASS'Y

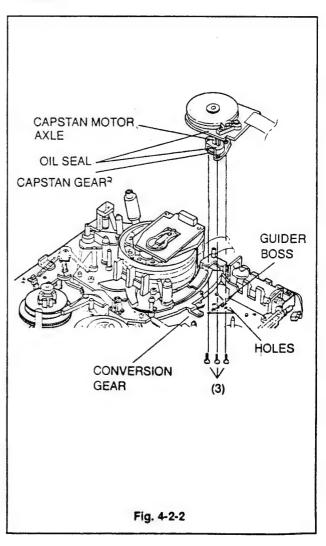
2-1. Disassembly (Fig. 4-2-2)

- (1) Set the Unit on the ULC Mode (Unloading).
- (2) Remove the DC Motor Ass'y by releasing 3 Screws(3) on the lower part of the Chassis.

2-2. Reassembly (Fig. 4-2-2)

- (1) Engage the Capstan Gear with the conversion Gear by fixing the 2 Guider bosses and 3 Guider Holes on the Upper part of Chassis into the 2 Guider Holes on the Capstan Gear.
- (2) Set the DC Motor Ass'y with 3 Screws(3) on the Lower part of Chassis.

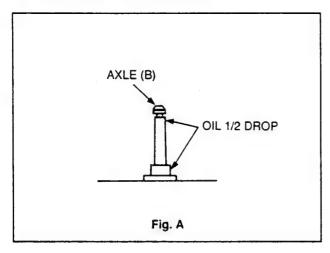
- · Use the about 2kgfcm Torque to fix Screw.
- Do not engage with the Gears by forces, because the Capstan Gear is easy to get demaged.
- · Stick the DC Motor fast to the Chassis completely.
- Do not touch the Capstan motor Axle, Oil Seal and Rotor.

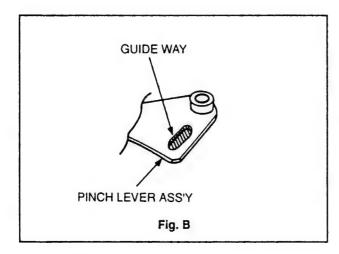


3. PINCH ARM ASS'Y AND PINCH LEVER ASS'Y

3-1. Disassembly (Fig. 4-2-3)

- (1) Set the Unit to the ULC Mode.
- (2) Remove the Pinch Arm Ass'y by removing the stopper Washer.
- (3) Remove the Pinch Lever Ass'y.

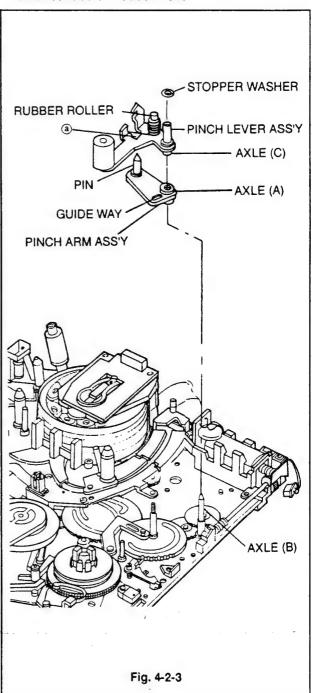




3-2. Reassembly (Fig. 4-2-2, 4-2-3)

- (1) Apply Oil 1/2 drop to the Axle(B) 2 point.
- (2) Apply greese in the in side of Guide on the Pinch Lever Ass'y (Fig. B).
- (3) Stick the Axle(A) of Pinch Lever Ass'y in the Axle B and assemble so the Roller is to be approached to the Guide Way.
- (4) Assemble so the Pinch Lever Ass'y pin is sticked in the ⓐ point by inserting the Pinch Arm Ass'y Axle(C) in the Axle (reassembling state).
- (5) Set the Stopper Washer.

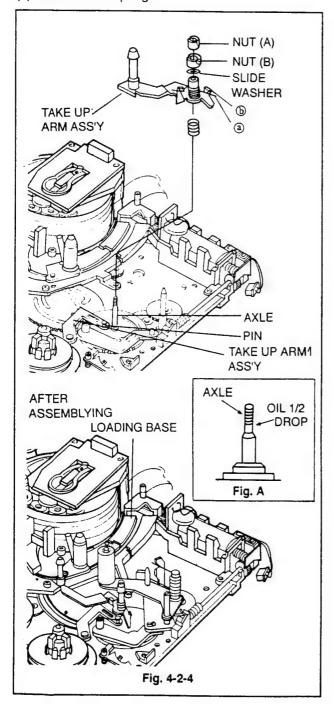
- Be careful the Nut is not to touch the Rubber Roller when reassembling the Pinch Arm Ass'y to Axle
- Be careful the object material is not to stain the outer surface of Rubber Roller.



4. TAKE UP ARM ASS'Y

4-1. Disassembly (Fig. 4-2-4)

- (1) Set the Unit to the ULC Mode.
- (2) Remove Nut(A) by using the (-) Driver.
- (3) Remove Nut(B) by using the exclusive Driver.
- (4) Remove the Slide Washer.
- (5) Remove the Take Up Arm Ass'y. At this time, remove after the Spring Arm @ point is to be supported to the Vertical Bending part point of Take Up Arm Ass'y.
- (6) Remove the Spring.

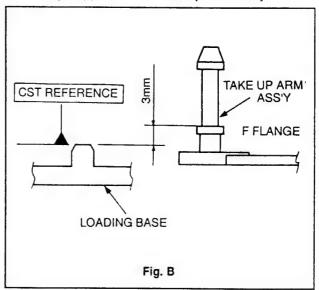


4-2. Reassembly (Fig. 4-2-4)

- (1) Apply the Oil 1/2 drop on the Axle.
- (2) Assembly the Compression Spring, Take Up Arm Ass'y, Slide Waher, Nut(B) and Nut(A) to the Axle.
- (3) Strain the Spring Arm ⓐ point of Take Up Arm Ass'y to the front to be stopped by sticking in the in side of Take Up Lever Ass'y Pin.

4-3. Take Up Arm Ass'y Height Adjustment

(1) Adjust to 3mm the height between the Cassette install standard side of Loading Base and the Frange Upper side of Take Up Arm Ass'y.



- Do not force the Spring Arm unreassembly during disassembly and reassembly, it may cause the transformation of spring.
- · Readjust the Take Path after reassembly.

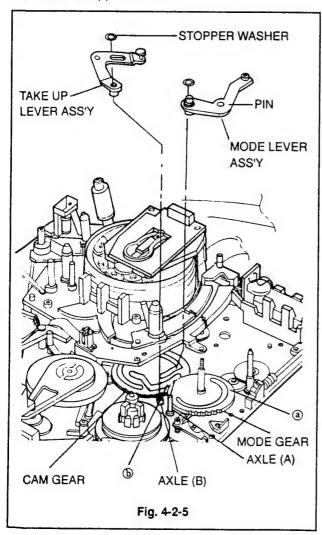
5. MODE LEVER ASS'Y and TAKE UP LEVER ASS'Y

5-1. Disassembly (Fig. 4-2-5)

- (1) Set the Unit to ULC Mode.
- (2) Remove the Stopper Washer and then remove the Mode Lever Ass'y.
- (3) Remove the Stopper Washer and then remove the Take Up Lever Ass'y.

5-2. Reassembly (Fig. 4-2-4, 4-2-5)

- Apply the Grease in the CAM trace (a) of Mode Gear.
- (2) Apply the Oil 1/2 drop to the Axle.
- (3) Stick the Mode Lever Ass'y pin in the CAM trace
 a of Mode Gear and then assemble the Mode Lever Ass'y to the Axle(A).
- (4) Set the Stopper Washer.
- (5) Apply the Oil 1/2 drop to the Axle(B).
- (6) Stick the Take Up Lever Ass'y pin in the CAM trace (b) of CAM Gear and then assemble the Take Up Lever Ass'y to the Axle.
- (7) Set the Stopper Washer.



6. SOFT BRAKE ASS'Y AND T/BAND PROTECT

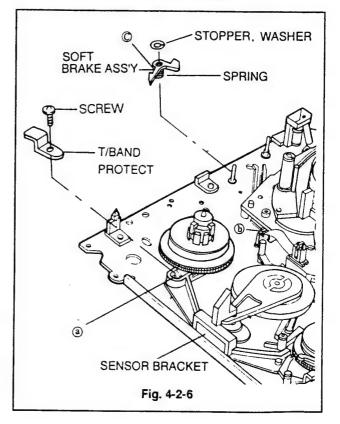
6-1. Disassembly (Fig. 4-2-6)

- (1) Set the Unit to the ULC Mode.
- (2) Hook the Spring Arm point © stuck in the Vertical Bending part point ⑤ on the Upper part of Chassis to the Spring hanger of Soft Brake Ass'v.
- (3) Remove the Stopper Washer and then remove the Soft Brake Ass'y.
- (4) Release the Screw and remove the T/Band Protect.

6-2. Reassembly

- (1) Stick the T/Band Protect in the Sensor Bracket point (a).
- (2) Set the Screw to point (a) using the (+) Driver.
- (3) Set the Soft Brake Ass'y to the Axle.
- (4) Set the Stopper Washer.
- (5) Assemble the Spring Arm point © stuck in the Soft Brake Ass'y supports the Vertical Bending part point ⑤ on the upper part of Chassis.

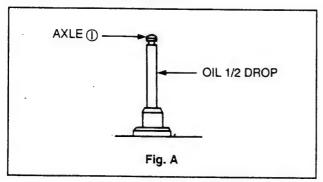
- Use the about 1.2kgf cm Torque to fix the T/Band Protect Set Screw.
- Do not force the Spring Arm © unreassembly, it may cause the transformation of Spring.
- During T/Band Protect assembling, be careful the Reel Ass'y Gear not to be denaged.

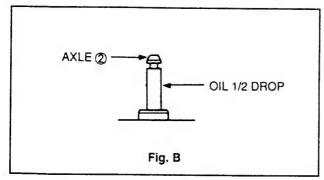


7. TENSION REGULATOR ASS'Y AND SLANT ROLLER ARM ASS'Y

7-1. Disassembly (Fig. 4-2-6, 4-2-7)

- (1) Set the Unit to the ULC Mode.
- (2) Hook the Spring Arm point (a) to the Spring Hanger point (e) of Slant Roller Arm Ass'y.
- (3) Remove the Stopper Washer and the remove the Slant Roller Arm Ass'y.
- (4) Remove the Spring Hook of Tension Regulator Ass'y from the Spring Hanger point © of Bracket.
- (5) Remove the Screw using the (+) Drive.
- (6) Remove the Stopper Washer and then remove the Tension Regulator Ass'y.
- (7) Remove the Slide Washer.





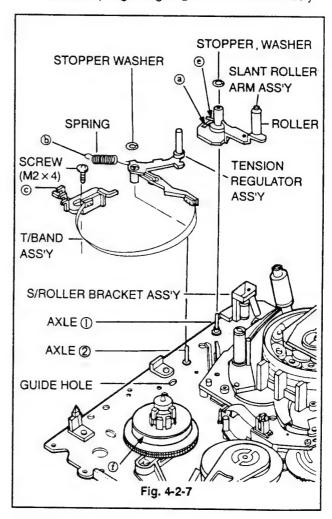
NOTES:

- Be careful so the Band is not to be distarted or folded and the Felt is not to be dirted by an object material during disassembly the Tension Regulator Ass'y.
- Be careful so the Roller surface is not to be dirted by an object material during disassembling the Slant Roller Arm Ass'y.

7-2. Reassembly (Fig. 4-2-7, 4-2-8)

- (1) Assemble the Slide Washer to the Axle (2).
- (2) Apply the Oil 1/2 drop to the Axle (2).
- (3) Assemble the Felt side of T/Band Ass'y with the point ① part of S-Reel Ass'y correctly by sticking the Tension Regulator Ass'y on the Axle.
- (4) Assemble the Bracket Guider boss of T/Band Ass'y to accord with the Guide Hole on the upper part of Mechanism Chassis, and then set the Screw.

- (5) Assemble the Stopper Washer on the Axle 2.
- (6) Put up the Spring Hook at the middle point of Bracket Spring Hanger ©.
- (7) Apply the Oil 1/2 drop to the Axle (1).
- (8) Assemble the Slant Roller Arm Ass'y on the Axle (1).
- (9) Set the Stopper Washer to the Axle (1).
- (10) Adjust the position of Tension Regulator FWD.
- (11) Put up the Spring Hook (b) at the middle Claw of Bracket Spring Hanger (c) on the T/Band Ass'y.



- During assembling the Tension Regulator Ass'y, be careful the Band is not to be distorted or folded and the Felt is not to be dirted by an object material.
- Use the about 1.2kgf cm Torque to fix the Bracket Set Screw.
- During assembling the Slant Roller Arm Ass'y, be careful the Roller surface is not to be dirted by an object material.

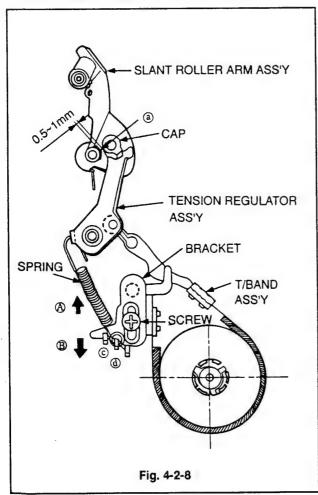
8. TENSION REGULATOR FWD POSI-TION AND BACK TENSION ADJUST-MENTS

8-1. FWD position Adjustment

- (1) Set the Unit to the FWD Mode after Loading a Cassette Tape. (Loading make)
- (2) Make Sure the gap between the edge of cap on the Tension Regulator Ass'y and the edge of Boss point ⓐ on the Slant Roller Arm Ass'y is 0.5~1mm.
 - If the gap is over the range, adjust the next step after ejecting the Cassette Tape.
- (3) Remove the Set Screw of the Bracket on the T/Band Ass'y.
- (4) If the measuring gap is farther than the range, draw the Bracket up to the Direction of arrow (A), and if the gap is nearer than the range, thrust the Bracket to the direct on of arrow (A), and then set the Screw.
- (5) Check the gap is in the range value by adjusting steps(1), (2) repeatedly.

NOTES:

Use a Cassette Tape wound about half.



8-2. Back Tension Adjustment (Fig. 4-2-8)

- (1) Load the Torque Cassette Tape in the Unit and set the Unit to Ope-Mode after step, adjustment. (Forward Play Mode).
- (2) Check the Back Tension Torque of the Supply side is in 6.5±2(gf cm).
- (3) Otherwise, adjust the Spring hanger position of Bracket as follows;
- (4) If the measurment value is more than the range, put the Spring Hook up to the Hanger ©, and if it is less than the range, put the Spring Hook up to the Hanger (a).
- (5) Make sure the Back Tension is in the range value by adjusting steps(1), (2) repeatedly.

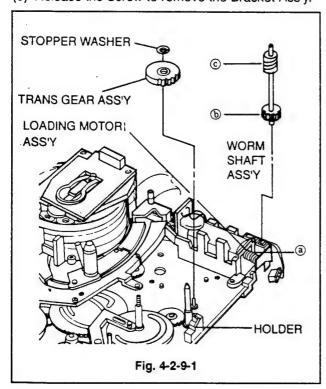
8-3. Reel Torque Checking

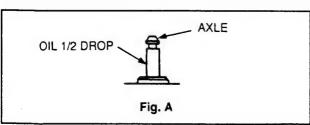
- (1) Load the Torque Cassette Tape in the Unit.
- (2) Set the Unit to FWD Mode and check the Torque on the T Reel Table is in 12.5±4gf cm.
- (3) Set the Unit to REV Mode and Check the Torque on the S Reel Table is in 12.5±4gf cm.
- (4) Set the Unit REV Mode and Check the Torque on the T Reel Table is in 12.5 ± 4gf cm.
- (5) If each Torque Value is over the range, change the Reel table.

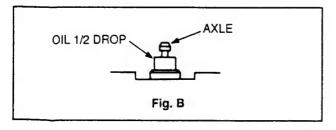
9. WORM GEAR ASS'Y MIDDLE GEAR, TRANS GEAR ASS'Y, LOADING MOTOR ASS'Y AND BRACKET ASS'Y

9-1. Disassembly (Fig. 4-2-9-1, 4-2-9-2)

- (1) Remove the Screw for removed the Loading Motor Ass'y (Fig. 2-9-2). At this time, the Worm Gear Ass'y is disassembled simultaneously with the Loading Motor Ass'y (a) and Worm Gear Ass'y (b) in gear together. (Fig. 4-2-9-1)
- (2) Remove the Loading Motor Ass'y and Worm SHAFT Ass'y. (Fig. 4-2-9-1)
- (3) Remove the Stopper Washer and remove the Trans Gear Ass'y.
- (4) Remove the Stopper Washer and remove the Middle Gear.
- (5) Release the Screw to remove the Bracket Ass'v.

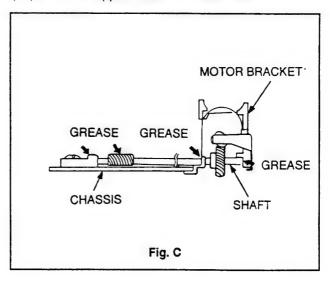






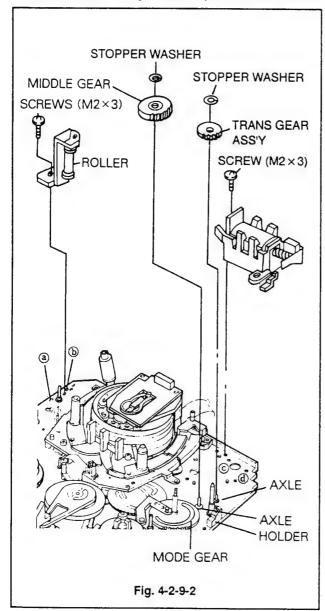
9-2. Reassembly (Fig. 4-2-9-2)

- (1) Assemble the Guide Bosses 2 points of Bracket Ass'y to accord with the Guide Holes "@" and ""b" on the upper part of Mechanism Chassis, and then set the screw.
- (2) Apply the Oil 1/2 drop on the Axle.
- (3) Go in gear the Mode Gear with Middle Gear by sticking on the Axle.
- (4) Set the stopper Washer to the Axle.
- (5) Assemble the Guide Bosses 2 points on the Lower part of Loading Motor Ass'y to accord with the Guide Holes "©" and "@" on the upper part of Mechanism Chassis and then set the Screw.
- (6) After the Gear point ⑤ of Worm Gear Ass'y is to be toward below, stick it into the Gear ⑥ bottom of Loading Motor Ass'y, and fix the Shafe end tip is to be supported to the Loading Motor Bracket first tip, and then assemble the other side of Shaft by pushing from inside of Holder to outside.
- (7) Apply the GREASE on the parts. (Fig. C)
- (8) Apply the Oil 1/2 drop on the Axle.
- (9) Go in gear with the Middle Gear and Worm Gear Ass'y Gear © together by sticking the Trans Gear Ass'y on the Axle.
- (10) Set the Stopper Washer on the Axle.



NOTES:

- Do not in gear the Gears by force during disassembly/reassembly of Gear, bited each other.
- During assembling the Bracket Ass'y, be careful the Roller surface is not to be dirted by an object material.
- Use the about 1.2kgf cm Torque to fix the Screw.



10. LOADING BASE ASS'Y, MODE GEAR ASS'Y AND EJECT LEVER ASS'Y

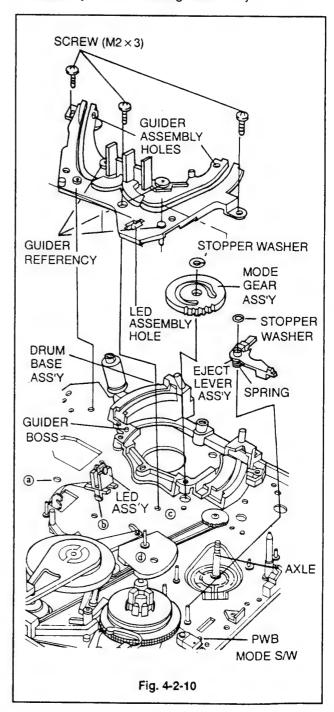
10-1. Disassembly (Fig. 4-2-10)

- (1) Remove the LED Ass'y from the Led assembly Hole of Loading Base Ass'y.
- (2) Remove 3 Screws and then remove the Loading Base Ass'y.

- (3) Release the Stopper Washer and remove the Mode Gear Ass'y.
- (4) Hook the Spring Arm point ⓐ of Eject Lever Ass'y by pushing to the front to the Spring Hanger of Eject Lever Ass'y.
- (5) Remove the Stopper Washer and then remove the Eject Lever Ass'y.

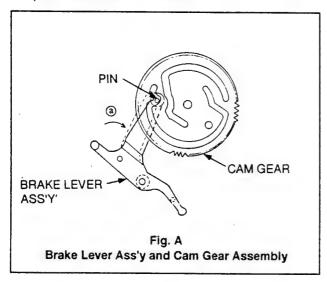
NOTES

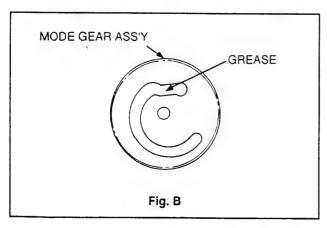
 Be careful the Led Ass'y Hook is not to danage during disassembly the LED Ass'y from the Led assembly Hole of Loading Base Ass'y.



10-2. Reassembly (Fig. 4-2-10)

- (1) Fix the Guide Basic 4 pins of Loading Basse Ass'y to the refuge holes "@ ", "\ob", "\ob" and "\display" formed on the upper part of Mechanism Chassis. Stick the Pin into the Gear trace of outer Cam formed on the Cam Gear by pushing the Brake Lever Ass'y slightly in the direction of arrow, and then stick the Guide Basic 4 Pins of Loading Base Ass'y fast to Guide 2 Holes by pressing from above to below. (Fig. A)
- (2) Set 3 Screws to "T1", "T2" and "T3" on the upper part of Mechanism Chassis.

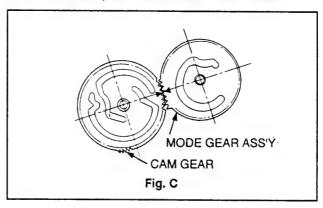


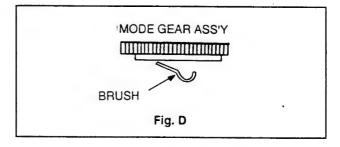


- (3) Assemble the Eject Lever Ass'y on the Axle, and Set the Stopper Washer on it.
- (4) Wipe the surface of PWB Mode S/W with the cotton stick with the cleanser.
- (5) After the cleanser is dried completely, Apply the Grease to the point of contact evenly and thinly.
- (6) Apply the Grease on the Mode Gear Ass'y Cam formative parts.
- (7) Go in gear the Cam Gear with the Mode Gear Ass'y by sticking on the Axle. (Fig. C)

(Assembly Method)

Go in gear with together so the intaglioed arrow edge to accord on the line connected to the middle of Mode Gear Ass'y and the middle of Cam Gear.





- (8) Set the Stopper Washer on the Axle.
- (9) Push the Spring Arm point (a) of Eject Lever Ass'y from the Spring hanger to below to be supported to the sidewall of CST S/W.
- (10) Apply the Grease on the deviant lines of Loading Base Ass'y (Fig. 4-2-11).
- (11) Stick the Led Ass'y into the Led Ass'y Hold of Loading Bass Ass'y.

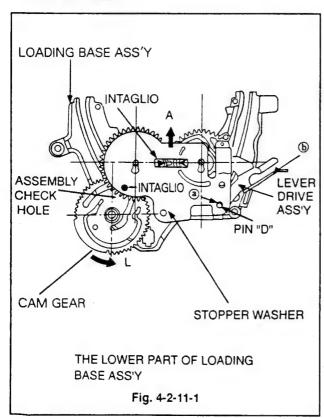
NOTES:

- Use the about 1.2kgf mm Torque to set 3 Screws.
- Do not force unreasonably, during disassembly and reassembly it may cause the transformation of Gear.
- Be careful so the Roller(S), (T) is not to be dirted by an object material.
- Take the Led Ass'y Hook and Loading Base Ass'y not to be transformed during assembling the Led Ass'y to the Led Ass'y Hole of Loading Base Ass'y.
- Be careful so the Brush on the Lower part is not to be transformed during handling the Mode Gear Ass'y (Fig. D).
- Do not gear in the Mode Gear Ass'y and Cam Gear by force during assembling, the Gear parts may get damaged.
- Take the Spring Arm (a) of Eject Lever Ass'y not to be transformed by force.

11. GEAR LOADING ASS'Y(S), (T), SLANT BASE ASS'Y(S), (T), CAM GEAR AND LEVER DRIVE ASS'Y

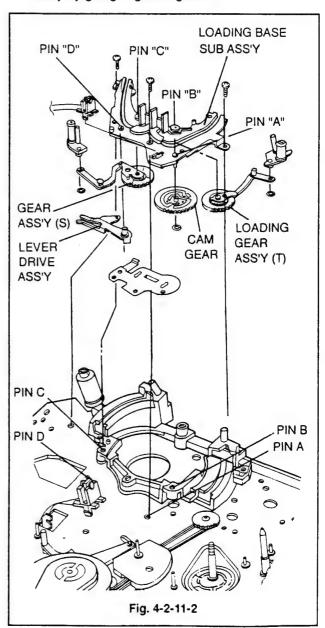
11-1. Disassembly (Fig. 4-2-11-1, 4-2-11-2)

- (1) Turn the Loading Base Ass'y over, and remove the part (a) of stopper Plate from Pin "D" by raising and then remove the Stopper Plate by Pushing and raising to "A" direction (to above). (Fig. 4-2-11-1)
- (2) Remove the Lever Drive Ass'y from Pin "D" on the Loading Base Sub Ass'y.
- (3) Turn the Cam Gear to the "L"direction to stop the rotating. At this time the Slant Base Ass'y(S), (T) also move forward because the Loading Gear Ass'y(S), (T) is rotated (Fig. 4-2-11-3).
- (4) Remove the Loading Gear Ass'y(S) and Slant Base Ass'y(S) from the pin "C" on the Loading Base Sub Ass'y.
- (5) Remove the Stopper Washer of Loading Gear Ass'y and disassemble the Slant Base Ass'y(S).
- (6) Remove the Loading Gear Ass'y(T) and and Slant Base Ass'y(T) from the pin "B" on the Loading Base Sub Ass'y.
- (7) Remove the Stopper Washer of Loading Gear Ass'y(T) and disassemble the Slant Base Ass'y (T).
- (8) Remove the Stopper Washer from the pin "A" on the Loading Base Sub Ass'y and disassemble the Cam Gear.



11-2. Reassembly (Fig. 4-2-11-1, 4-2-11-2)

- (1) Apply the Oil 1/2 drop on the pin "A" of Loading Base Sub Ass'y. (Fig. 4-2-11-2)
- (2) Apply the Grease on the deviant lines of Cam Gear. (Fig. A)
- (3) Stick the Cam Gear in the pin "A" of Loading Base Sub Ass'y adn then set the Stopper Washer.
- (4) Stick the Slant Base Ass'y(T) and the set theStopper Washer.
- (5) Assemble the Cam Gear and Loadilng Gear Ass'y by going in gear together.

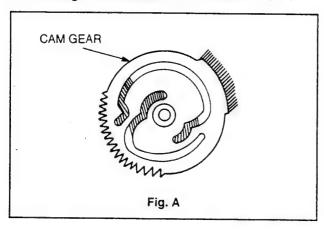


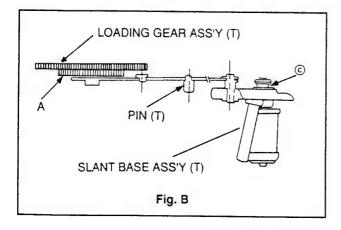
(Assembly Method)

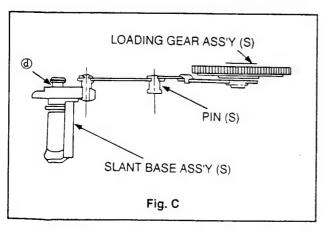
Apply the Oil 1/2 drop to the Pin "B". Accord the "assembly basic Hole", on the part unformed the teeth pattern by turning the Cam Gear, with the Guider Hole "E" forned on the Loading Base Sub Ass'y.

Fix the Loading Gear Ass'y(T) in the Pin "B". Accord the Guider Hole "F" in the center of cam Gear and Loading Cam Gear.

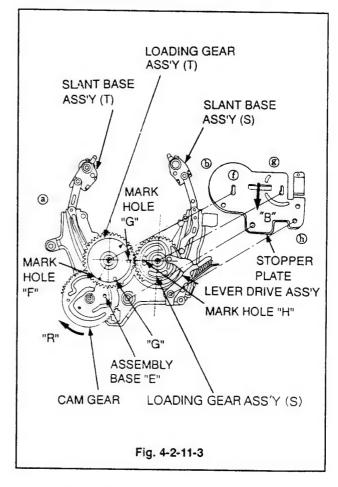
In the state, fix the little Gear(A) Teeth in the Cam Gear by pushing the Loading Gear Ass'y(T) from the Upside to the lower. (Fig. 2-11-3). And Check the Guider Hole "G" of Loading Gear Ass'y(T) is placed in the straight line between Pin "B" and Pin "C".







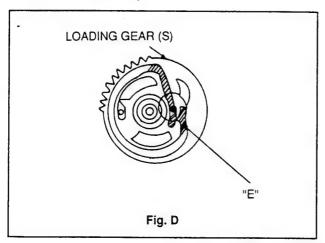
- (6) Stick the Pin "T" head of Loading Gear Ass'y(T) in the Guide Way "A" of Loading Base Sub Ass'y. (Fig. 4-2-11-3)
- (7) Stick the Slant Base Ass'y(S) in the Lever Hold of Loading Gear Ass'y(S) and Set the Stopper Washer. (Fig. 4-2-11-2)
- (8) Apply the Oil 1/2 drop in the Pin "C" of Loading Base Sub Ass'y. (Fig. 4-2-11-2). Go in gear the teeth of Loading Gear Ass'y(S) with the teeth of Loading Gear Ass'y(T).



(Assembly Method)

Fix the Loading Gear Ass'y(S) in the Pin "C" and check the Guide Hole "H" is placed in the straght line between Pin "B" and Pin "C", After Assembly, Pin "B", Guider Hole "G", Guider Hole "H" and Pin "C" are placed on the straight line. (Fig. 4-2-11-3)

- (9) Stick the Pin(S) Head of Loading Gear Ass'y(S) in the Guide Way "B" of Loading Base Sub Ass'y. (Fig. 4-2-11-3)
- (10) Rotate the Cam Gear to the direction of "R" Stick the part "C" of Slant Base Ass'y(T) and part "D" of Slant Base Ass'y(S) in the Guide Way "A" and "B" of Loading Base Sub Ass'y and then rotate the Cam Gear to the direction of "R" until the rotaty is stopped.
- (11) Apply the Grease on the deviant Lines of Cam trace formed on the Gear. (Fig. D)
- (12) Apply the Oil 1/2 drop in the Pin "D" of Loading Base Sub Ass'y. (Fig. 4-2-11-3)
- (13) During sticking the Lever Drive Ass'y in the Pin "D" of Loading Base Sub Ass'y, stick the Pin "L" of Lever Drive Ass'y in the inside of Cam trace on the Loading Gear(S). (Fig. D, part "E")
- (14) Apply the Grease on the deviant Lines of Lever Drive Ass'y. (Fig. 4-2-11-3)
- (15) Set the Stopper Plate
- (16) Turn the Loading Base Ass'y over, and apply the Grease to the deviant lines of the upper part on the Guide Way.



(CHECKING) (Fig. 4-2-11-1)

- Check the Vertical hem of Loading Gear Ass'y(T) negative mark "D" and Loading Gear Ass'y(S) positive mark " " are accorded with each other.
- Check the stopper Plate Guider Hole "I" and Loading Gear Ass'y(T) negative mark "G" are accorded with each other.
- During the checking, if the wrong result is found, adjust the steps above again.

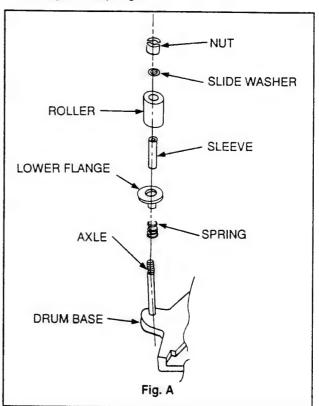
NOTES:

- During the Gears assembly, be careful of the Teeth of Gears get demaged by force.
- Do not force them umreasonably to disassembly and assembly.
- During the Slant and Base Ass'y(C), (T) disassembly and assembly, be careful of the obstruction adhere to the Roller and Post.

12. DRUM BASE ASS'Y AND INERTIA ROLLER ASS'Y

12-1. Disassembly (Fig. 4-2-12) (Fig. A)

- (1) Remove 3 Screws and ever remove Drum Base Ass'y.
- (2) Remove the Nut.
- (3) Remove the Slide Washer, Roller, Sleeve, Lower Flange and Spring.

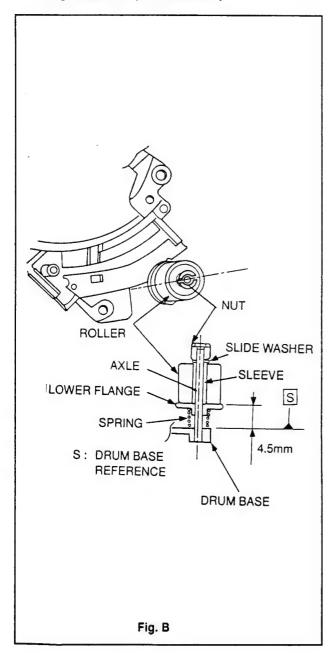


12-2. Reassembly (Fig. 4-2-12) (Fig. A)

- (1) Install the Spring, Lower Flange, Sleeve, Roller and Slide Washer on the Axle of Drum Base.
- (2) Fix the Axle by rotating the Nut four or six times.
- (3) Stick the Guide Bosses 2 point of Drum Base Ass'y in the Boss refuge Holes on the upper part of the Mechanism Chassis from above to below.
- (4) Set 3 Screws to fix the Drum Base Ass'y.

NOTES:

- Use the about 2kgf cm Torque to set Screw.
- Be careful so the Roller surface is not to be dirted during disassembly and assembly.

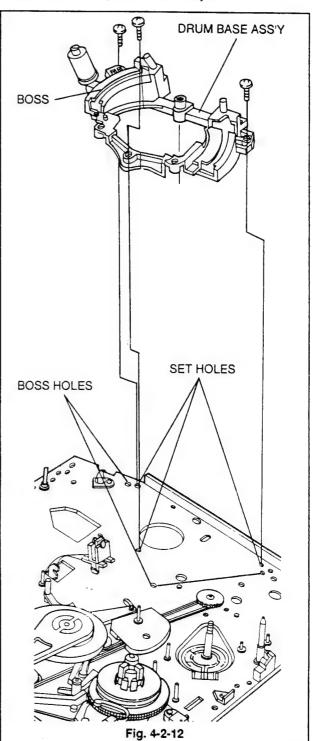


12-3. Roller Height Adjustment (Fig. B)

(1) Adjust the height of Drum Base Lower Side and Lower Frange upper Side by rotating the Nut.

NOTE:

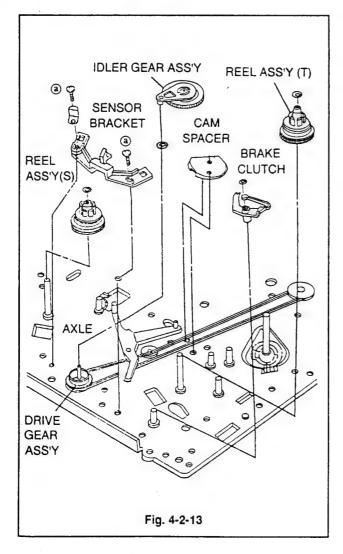
· Readjust the Tape Path after adjustment.



13. BRAKE CLUTCH, REEL ASS'Y(S), REEL ASS'Y(T), SENSOR BRACKET, IDLER GEAR ASS'Y AND CAM SPACER

13-1. Disassembly (Fig. 4-2-13)

- (1) Remove the Stopper Washer and remove the Brake Clutch.
- (2) Remove the Stopper Washer and remove the Slide Washer after disassembly the Reel Ass'y (T).
- (3) Remove the Reel Ass'y(S) and then remove the Slide Washer.
- (4) Remove the Screw @ and Sensor Bracket.
- (5) Disassemble the Idler Gear Ass'y and remove Slide Washer.
- (6) Remove the Cam spacer.



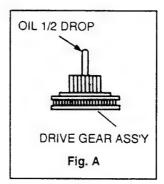
13-2. Reassembly (Fig. 4-2-13)

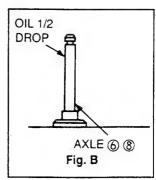
(1) Stick the Guide Bosses 2 point of Cam Spacer in the Guider Bosses 2 point on the upper part of the Mechanism Chassis in the bottom of the Chassis by pushing from above to helow.

(2) Stick the Slide Washer on the Axle and then apply the Oil 1/2 drop and assemble the Idler Gear Ass'y on the Axle. (Flg. A). During assembling the Idler Gear Ass'y, go in

gear the idler Gear teeth with Gear teeth on the upper part of Drive Gear Ass'y.

- (3) Stick the Guide Boss 2 point of Sensor Bracket in the Guide Holes 2 point on the upper part of Mechanism Chassis and set right part with Screw.
- (4) Push the Spring Arm (a) of Brake Reel Ass'y to be supported to the side wall of Sensor Bracket.
- (5) Stick the Slide Washer on the Axle and apply the Oil 1/2 drop to the Axle and assemble the Reel Ass'y (S). (Fig. B)
- (6) Stick the Slide Washer on the Axle and apply the Oil 1/2 drop to the Axle and assemble the Reel Ass'y(T). (Fig. B)
- ⇒ Assemble the Reel Ass'y(T) carefully and go in gear the Brake Reel Ass'y teeth with Reel Ass'y (T) teeth by rotating the Lever Brake Ass'y to the direction of "R".
- (7) Set the Stopper Washer on the Axle.
- (8) Set the Brake Clutch and then the Stopper Washer on the Axle.
- ⇒ Assemble the bow of Brake Clutch to be Supported to the Side wall of Reel Ass'y(T).





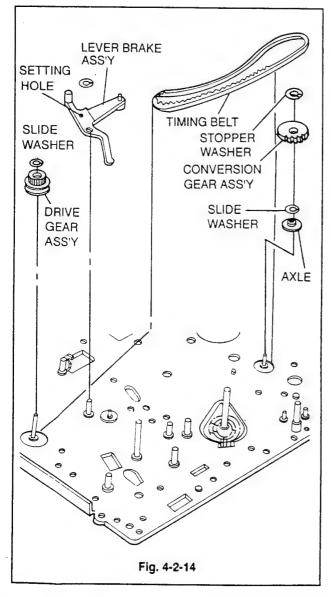
NOTES:

- Be careful so the bow of Brake Clutch is not to be transformed.
- Do not enguage with the Gears by forces, because the Idler Gear is easy to get demaged during the Idler Gear Ass'y.
- Be careful so the teeth is not to get demaged during assembling the Brake Reel Ass'y and Reel Ass'y(T).
- Do not force the Spring Arm unreafonably during the disassembly and reassembly of Spring Arm on the Brake Reel Ass'y, it may cause the transformation of Spring.
- Use the about 1.2kgf cm Torque to set Screw.

14. BRAKE REEL ASS'Y, LEVER BRAKE ASS'Y, TIMING BELT, IDLER BELT, DRIVE GEAR ASS'Y, CONVERSION GEAR ASS'Y

14-1. Disassembly (Fig. 4-2-14)

- (1) Remove the Stopper Washer and remove the Brake Reel Ass'y.
- (2) Remove the Timing Belt. Release the Timing Belt stuck in the Idler Belt and then remove the Timing Belt from the Drive Gear Ass'y.
- (3) Loosen the Stopper Washer, and remove the Idler Belt and Slide Washer.
- (4) Remove the Drive Gear Ass'y and Slide Washer on the Axle.
- (5) Loosen the Stopper Washer, and remove the Conversion Gear Ass'y and Slide Washer.



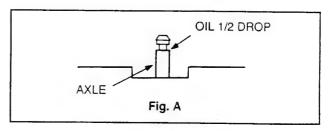
14-2. Reaseembly (Fig. 4-2-14)

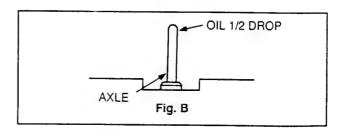
(1) Stick the slide washer on the Axle and apply the oil 1/2 drop on the Axle. (Fig A)

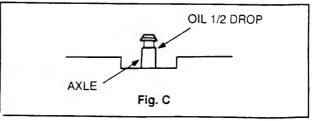
- (2) Assemble the conversion Gear Ass'y on the Axle and set the stop washer.
- (3) Assemble the slide wahser on the Axle and apply the oil 1/2 drop on the Axle. (Fig B)
- (4) Assemble the Grive Gear Ass'y on the Axle.
- (5) Stick the Idler Belt on the Axle and apply the oil 1/2 drop on the Axle.
- (6) Assemble the Idler Belt on the Axle and set the stopper wahser.
- (7) Assemble the Timing Belt. Hook the Timing Belt on the lower Gear of Conversion Gear Ass'y and assemble the vertical port(no teeth part) on the lower teeth part of Drive Gear Ass'y by hooking on the vertical part of IdlerBelt. (Fig. 4-2-13) Apply the oil on the teeth of Timing Belt.
- (8) Assemble the Lever Brake Ass'y on the Axle and set the stopper washer, and then fit the Guider Hole to the cognition hole by rotating the Lever Brake Ass'y.
- (9) Stick the Lever Brake, on the Axle and set the Stopper Washer, At this time, assemble so the part "B" on the Lever Brake Ass'y is to be inserted in the Mouth part "A" on the Brake Reel Ass'y. (Fig. 4-2-13)

NOTE:

Do not force to be transformed unreasonably during the Timing Belt disassembly/assemly.







15. DRUM ASS'Y DISASSEMBLY

15-1. Disassembly

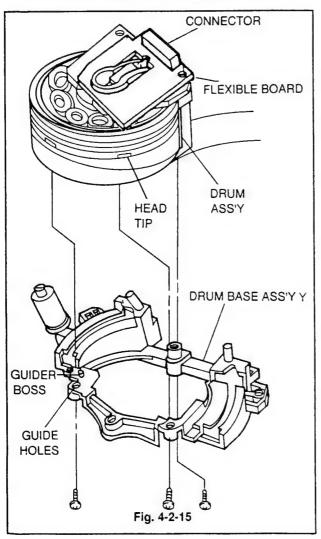
- (1) Set the Unit to the ULC Mode (Unloading mode).
- (2) Remove the Flexible Board and connector.
- (3) Loosen the 3 screws on the Lower part of Chassis and remove the Drum Ass'y from the Drum Base Ass'y.

15-2. Reassembly

- (1) Fit 2 Guider Bosses formed on the Drum Base Ass'y with the Guider refuge Holde on the Lower part of Drum Ass'y, and then set the Drum Ass'y with 3 screws through the Guide Hole of Drum Base Ass'y on the Lower Part of chassis.
- (2) Link the connector to the Flexible Board.

NOTES:

- During the Flexible Board and connector disassembly/assembly, be careful to the Line Cutting or transformation.
- . Do not touch the Head Tip.
- Readjust the Tape path of ter assembly.
- Use the about 2kgf cm Torgue to set screw.



16. DRUM DISASSEMBLY

16-1. Disassembly

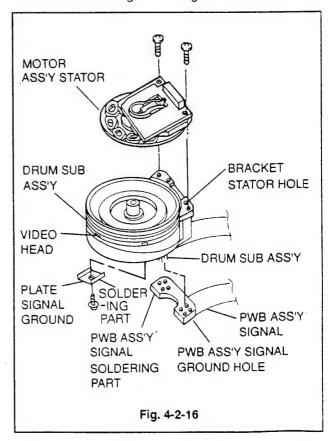
- (1) Loosen 2Screws on the upper part of Drum Ass'y and remove the Motor Ass'y stator.
- (2) Remove the lead from the soldering part on the Lower part of Drum Ass'y, and remove the Plate Signal by loosening 1 Screw.
- (3) Remove the lead from the PWB Ass'y signal soldering part on the Lower part of Drum Ass'y and remove PWB Ass'y signal.

16-2. Reassembly

- (1) Assemble the Drum to fit the PWB Ass'y signal Hole and the Drum Sub Ass'y pin properly, and solder on the soldering part of PWB Ass'y signal.
- (2) Assemble the Plate Signal Ground on the Drum Sub Ass'y with 1 screw, an then Solder on the soldery part of Plate signal Ground.
- (3) Assemble the Motor Ass'y Stator in the Bracket Stator Hole with 2 screws on the upper part of Drum Sub Ass'y.

NOTES:

- During the parts assembly, do not scratch on the surface of Drum.
- Be careful so the Video Head is not to be damaged.
- Solder carefully after assembling the PWB Ass'y Signal.
- Use the about 2kgf cm Torque to set screw.



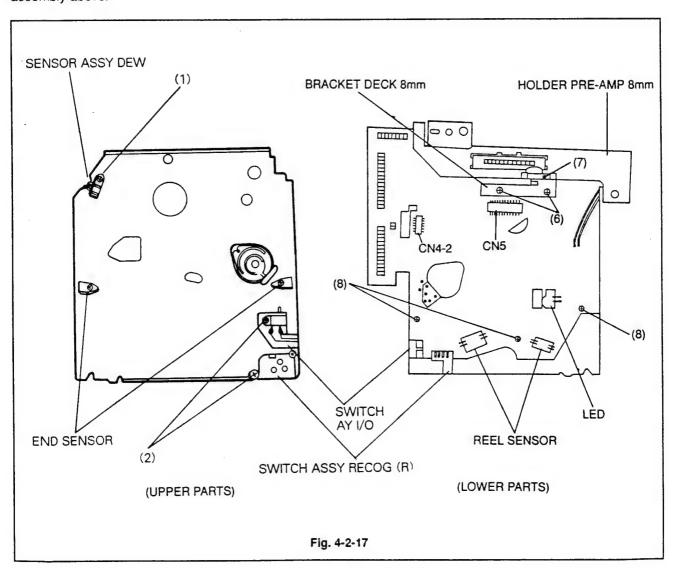
17. PCB ASS'Y DECK

17-1. Disasembly

- (1) Remove 1 screw (4) and 1 screws (5) on the upper parts of chassis.
- (2) Remove the Holder PRE-AMP 8 mm, BRACKET DECK 8mm after release, screw (6) and screw (7).
- (3) Remove 3 screw (8) and remove the solder of Mode switch, LED.
- (4) Remove the PCB ASS'Y DECK JUNTION.

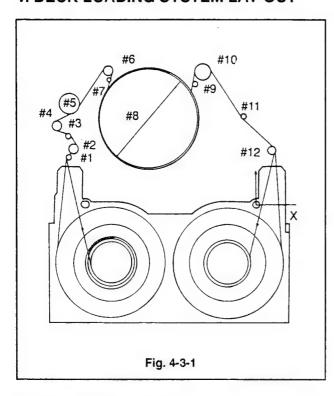
17-2. Reassembly

Perform the reassembly to the reverse order of assembly above.



DECK MECHANISM ADJUSTMENT

1. DECK LOADING SYSTEM LAY-OUT



#1: TENSION POST (@2)

#2: GUIDE ROLLER (N) (@4)

#3: SLANT POST (#2)

#4: GUIDE ROLLER (4)

#5: INERTIA ROLLER (=P1) (@8)

#6: GUIDE ROLLER (S) (=P2) (4)

#7: SLANT POST (S) (2)

#8: DRUM (40)

#9: SLANT POST (T) (2)

#10 : GUIDE ROLLER (T) (=P3) (\$\varphi\$6)

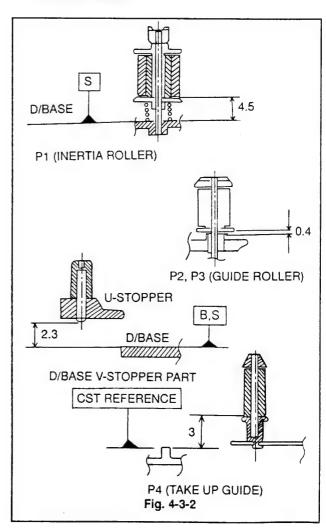
#11: CAPSTAN (1.995)

#12 : TAKE UP GUIDE (=P4) (@3)

2. PREPARATIONS

- ① Cleaning water.
- (2) Chanois cloth.
- (3) Cotton stick
- 4 Dental mirror.
- 5 Torgue CST Tape, Alignment Tape and PLAY/RECORDING Tape.
- 6 Hexagonal Wrench(0.89mm) or L-Wrench.
- ⑦ Small(-) Driver⇒P1, P4 Adjustment.
- 9 Circuit jig for Deck adjustment.

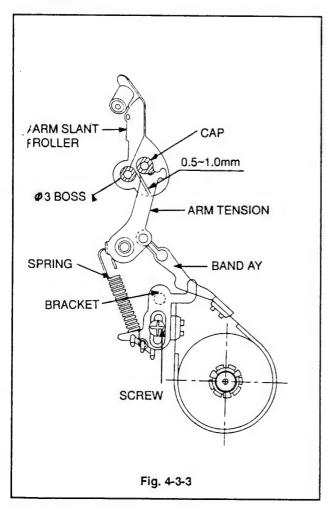
3. LOADING POST FIRST HEIGHT ADJUSTMENT



4. TENTION ARM POSITION AND BACK TENTION ADJUSTMENT

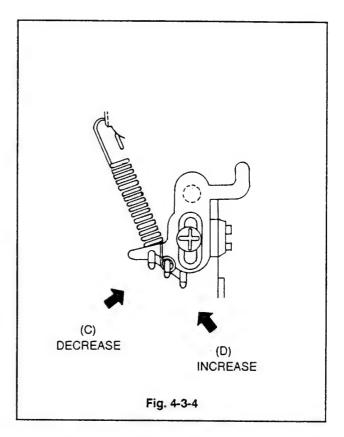
4-1. Tension Arm position Adjustment

- (1) Set the Deck mechanism to the Ope-Mode in No Tape state ⇒using the Circuit Fixture.
- (2) Check the gab between ₱3 Boss of Arm Slant Roller and Cap of Arm Tension is 0.5~1.0 mm. If the gab is over the range, adjust as follows.
- (3) Remove the screw on the Bracket fixing the Band Ass'y.
- (4) Set the Bracket to the desired position by pushing to the direction of A or B and then set the screw.



4-2. Back Tension Adjustment

- (1) After step 4-1 Adjustment, insert the Torgue CST Tape in the Unit and set to the Ope-Mode.
- (2) Check the Back Tension Torgue of Supply side is in 6.5 ± 2 (gf-cm).
- (3) If the measuring value is more than the range, hook the spring of Bracket to (c), and if the value is less than hook to (D).
- (4) Check the Back Tension is in the range by performing the Step 1) and 2) repeatedly.



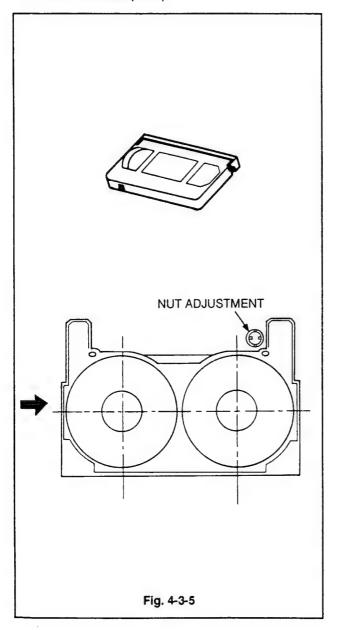
1-5. REEL TORQUE CHECK

Inset the Torque CST Tape in the unit and check the spec as follows;

MODE	UNIT	SPEC	REMARKS	
OPC CUE	gr. em	12.5±4	At T/up Reel	
REVERSE	gr - cm	35±6	At Supply Reel	
REVIEW		12.5±4	At T/up Reel	

6. TAPE PATH ADJUSTMENT

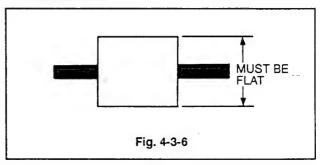
The 8mm Video can control the Tape speed instantaneously using the pilot signal, and adjusst very correctly using the ATF(Automatic Track Finding) method, so the adjustment by Tracking control knob is not need. But in case of ATF method, the Tape Path adjustment is difficult. That is, the perfect adjustment is difficult through the ATF method, because it compensates the Head Tracking Error to extent. Therefore, select the Track shift Mode for is possible and the Tracking control is easy. NOTE for P4 Guide (#12).



6-1. Adjustment preparation

- (1) Wipe the Tape path. (Tape Guides, Drum, Capstan Shaft, Pinch Rollor)
- (2) Set the oiscilloscope for the Waveform Output.
- (3) Play Back the alignment Tape for Tracking control.
- (4) Chck the RF Waveform of Oscilloscope in the Entrance/Exit is flat Otherwise, adjust as follows;

WAVEFORM



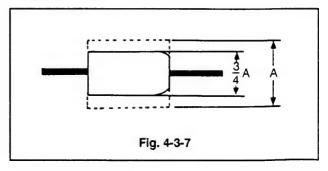
6-2. Tracking Control

- (1) Playback the Aligment Tape for Tacking contrl.
- (2) Using the Running Control stick, rotate the P2-Guide so the waveform of entrance side is to be flatted.
- (3) Using the Running control stick, ortate the P3-Guide so the waveform of exit side is to be flatted.

6-3. Tracking Fine Adjustment

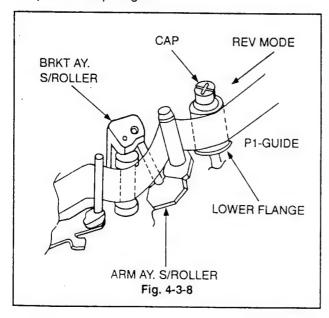
- (1) Playback the Alignment Tape for Tracking control and set the unit to the Track shift mode.
- (2) Check the waveform is flat. Otherwise, roate the P2-Guide and P3-Guide so it is to be flatted.
- (3) Set the Lock screw of P2 side using the Hexaponal Wrench 4 L-Wrench, etc. At this time, check the entrance of waveform is not change.
- (4) Set the Lock Screw in the P3 side using the hexaponal Wrench 4 L-Wrench, etc. At this time, check the exit side of waveform is not changed.

WAVEFORM



6-4. P1-Guide (Inertia Roller) Adjustment

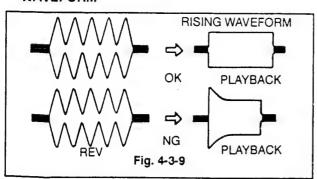
- (1) Playback the P6-120MP Tape, and then set the unit to REV Mode.
- (2) Check the distortion is occurred in the Lower Flange of P1-Guide. If it appears, bring the Cap of P1-Guide a lower by rotating it to the clockwise with the driver until the tape is flatted.
- (3) Playback the Alignment tape for the Tracking control.
- (4) Perform the Tracking Control and Tracking Fine Control.
- (5) In the Track Shift state, playback the tape again after CUE/REV. At this time, check the RF Waveform is stabled horizontality in 2secs.
- (6) If not, rotate the cap of P1-Guide to an angle of 90 degrees of counter-clockwise and then perform step 5 again.



NOTES:

- ① Repeat Step(5),(6) until the normal waveform ranged is become. At this time, if the RF waveform is changed, perform the Track Fine adjustment of Entrance side and then repeat step(5) again.
- ② Druing FF/REW Mode, check the Curl or Tape Jam are occurred on the #4 Guide Roller Upper/Lower Flange of Bracket AY, S/Roller.

WAVEFORM

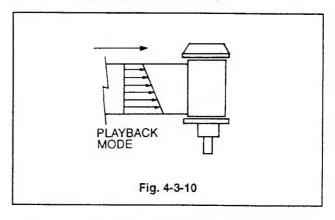


6-5. P4-Guide(T/Up Guide) Adjustment

- (1) Playback the Alignment Tape for Tracking control and set the unit to the REV-Mode.
- (2) Check the Tape transformation is not occurred between the P3-Guide and Capstan Shaft. If it occurrs, rotate the P4-Guide Height Adjustment Cap until the Tape transformation is ridded.
- (3) Set the unit to the playback Mode, and then check the Tape transformation is not occurred between the Capstan shaft and P4-Guide(within 0.5mm) If the Tape transformation is more than 0.4mm, adjust the P4-Guide Height unil it is become within 0.5mm.

NOTES:

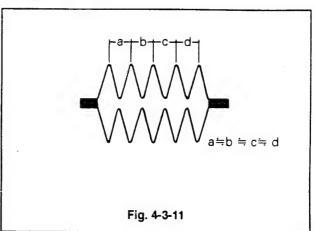
- When the unit is set to the REV*Mode. it is good adjustment that the transformation between P3-Guide and Capstan Shaft is appeard within 0. 3mm.
- The Upper/Lower Tape Tension distribution in the P2,P3-Guide must be as follows;



6-6. CUE/REV Waveform check

- (1) Playback the Alignment Tape for Tracking control and then set the unit to the REV Mode. Check the top of each waveform is sustained with the regular width of 5 or more than 5. Otherwise, perform Item 6-3.
- (2) Set the unit to the CUE-Mode. Check otherwise, perform tem 6-3.

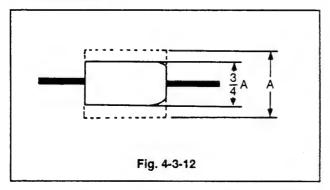
WAVEFOSM



6-7. Check after Adjustment

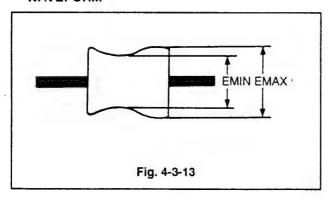
- (1) Tracking Check
 - Check the width of RF Wavefrom is reduced to about 3/4 when do the unit set to the Track Shift position.

WAVEFORM



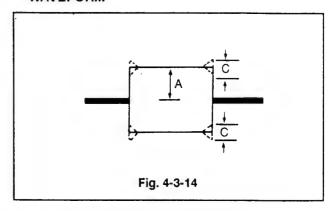
 Check the Minimum width (Emin) is the 65% of Maximum Width (Emax) or more than 65%.

WAVEFORM



- 3) Check the Waveform is not changed greatly.
- (2) Rising Check
 - 1) Playback an Alignment Tape for Tracking Control.

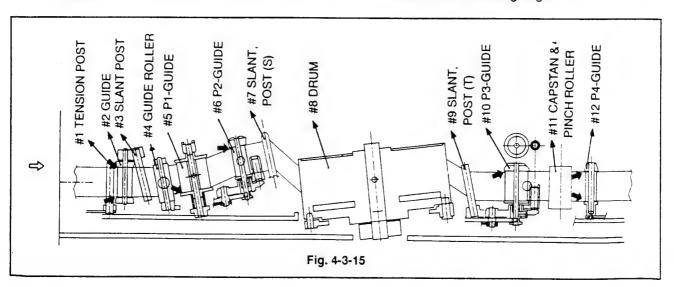
WAVEFORM



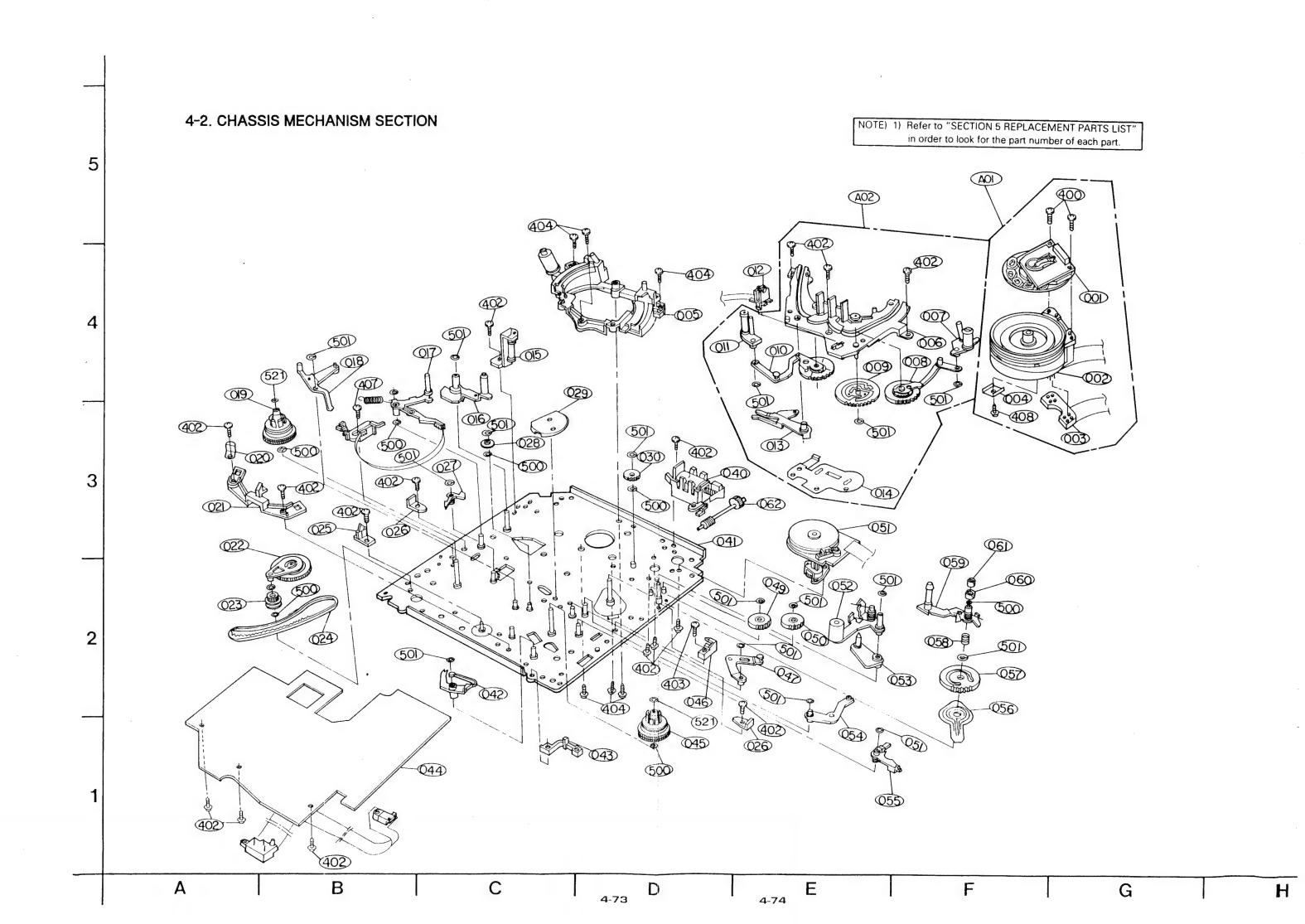
- 2) Release the Tracking Shift State.
- 3) Unload the tape and load again.
- 4) Set the Unit to the PLAY mode and check the RF Waveform is stabilized within 2 Secs, horizontally, Also, check the tape is distorted around the Pinch Roller.
- 5) Set the Unit to the CUE/REV and FF/REW modes and then playing back again, check the RF Waveform is stabilized within 2 Secs, horizontally, Also, check the tape is distorted around the Pinch Roller.
- 6) Check the process from 3) to 5) repeatedly.
- (3) TAPE PATH Adjustment
 - 1) Playback the P₆-120MP (NTSC) or P₅-90MP (PAL) Cassette Tape.

Check the Tape gets on or the Tape folded state is within 0.3mm in the following flanges;

- ① Upper and Lower Flange of #2 Guide.
- 2 Lower Flange of #5 P1-Guide
- ③ Upper Flange of #6 P2-Guide
- 4 Upper Flange of #10 P3-Guide
- ⑤ Upper and Lower Flange of #12 P4-Guide
- 2) During Playback Mode, press the FF key to set CUE Mode or press the REW key to set REV Mode, and at this time, check the Tape gets on or the Tape folded state is within 0. 3mm in the following flages.



4. EXPLODED VIEW NOTE) 1) Refer to "SECTION 5 REPLACEMENT PARTS LIST" in order to look for the part number of each part. 4-1. CASSETTE HOUSING SECTION 4 3 F G H В 4-71



SECTION 5 REPLACEMENT PARTS LIST

1. Mechanical Section

1-1. VHS Mechanism

RUN DATE: 94.02.14

NSP: Not Service Part

S AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
			ASSEMBLY PARTS SE	ECTION	
	A00	412-126B	DECK	ASSY D-17 (4HD VCR PAL)	
OR	A00	412C126B	DECK	ASSY D-17	
OR	A00	412G126B	DECK	ASSY D-17	
OR	A00	412H126B	DECK	ASSY D-17	
OR	A00	412W126B	DECK	ASSY D-17	
	A01	413-303B	DRUM	ASSY D17 F5CH (PAL)	
	A02	386-296B	ARM	ASSY CL	
OR	A03	311-005G	CHASSIS ASSY'	D17	NSP
	A03	311-005M	CHASSIS ASSY'	D17	NSP
	A04	456-048A	REEL	ASSY SUPPLY POM 7G	710.
	A05	456-045A	REEL	ASSY T/UP POM 7G	
	A06	321-397D	BRACKET	ASSY F/R	
	A07	225-228A	BASE	ASSY A/C	
OR		225-248A	BASE	ASSY,P2	
1	80A	225-248B	BASE	ASSY P2 (W-W)	
OR		225-249A	BASE	ASSY,P3	
	A09	225-249B	BASE	ASSY P3 (W-W)	
	A10	414-104A	MOTOR	ASSY LOAD	
	A11	333-209E	LEVER	ASSY PINCH	
	A20	321-401A	BRACKET	ASSY BOTTOM	
	A21	333-208A	LEVER	ASSY RAT	
	A22	338-078A	BRAKE	ASSY CAP	
	A23	386-218A	ARM	ASSY LOAD(R)	
	A24	386-219A	ARM	ASSY LOAD(L)	
	A25	511-997B	PWB ASSY!	D-17, VCR	
	A30	219-017F	HOUSING	ASSY (D17)	
	A32	435-257B	GEAR	ASSY DRIVE (HOOK ADDED)	
	A33	321-406A	BRACKET	ASSY CARRIER	
	A34	321-441A	BRACKET	ASSY SIDE	
	A35	515-106A	PWB ASSY	SENSOR	
	7.00	310 10071	PARTS SECTION		
	001	413-304B	DRUM	ASSY UPPER (D17-F5CH)PAL	
	002	413-305A	DRUM	ASSY,LOWER (D17-F5CH)	
	005	225-231B	BASE	ASSY D-BRUSH	İ
OR		225-220A	BASE	DRUM	NSP
	006	225-220B	BASE	DRUM (W-W)	NSP
OR		225-220C	BASE	DRUM (Y-H)	NSP
	007	386-297A	ARM	SUB ASSY CU	
	800	442-460B	SPRING	CU	
	009	442-459A	SPRING	CL	
	010	386-295B	ARM	CL	
	012	384-071A	GUIDE	17	
	014	378-017A	SLEEVE	P1	
	015	434-178A	ROLLER	P1	
OR	015	434-178B	ROLLER	P1	
	016	389-003B	ADJUST	P(4)	
	018	386-205A	ARM	ASSY TENSION	

SAL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	P: Not Service Part REMARKS
	019	442-331C	SPRING	TENSION	
	020	328-052B	BAND	ASSY TENSION	
	021	334-066A	STOPPER	P1	
	027	435-243A	GEAR	IDLE A POM 3G	
	028	435-244A	GEAR	IDLE B POM 3G	
	029	456-040A	REEL	T17	NOD
	030	442-341A	SPRING		NSP
-1	031	276-068A	CAP	REEL	NSP
	031	456-039A	REEL	REEL	NSP
	036	435-240A		S17	NSP
	037	442-336A	GEAR	F/R POM 3G	
	1		SPRING	UP/D	NSP
	038	435-239A	GEAR	UP/D POM 3G	NSP
	040	333-201B	LEVER	ASSY F/R	NSP
	044	442-338B	SPRING	SSB	NSP
	045	338-081A	BRAKE	S-SOFT	NSP
	046	442-337A	SPRING	SMB	NSP
	047	338-080A	BRAKE	ASSY S-MAIN	NSP
	048	442-339D	SPRING	TSB	NSP
	049	338-083A	BRAKE	ASSY T-SOFT	NSP
	050	321-396A	BRACKET	SUB ASSY F/R	NSP
	054	389-013A	ADJUST	X-ASSY	
	056	378-018A	SLEEVE	P4	
	060	442-343A	SPRING	T/UP	
-	061	386-387B	ARM	ASSY T/UP	
	065	442-332A	SPRING	A/C	
	066	225-219A	BASE	SUB ASSY A/C	NSP
	068	523-089A	HEAD	SUB ASSY A/C	1101
	069	442-362A	SPRING	AZIMUTH	
	070	338-085A	BRAKE	ASSY T-MAIN	
	071	442-344A	SPRING	TMB	
	074	434-173A	ROLLER	ASSY GUIDE	
	075	353-054B	SCREW	MINIATURE	
	076	225-226B	BASE		
	077	225-225B	BASE	SUB ASSY SLALT (L,W-W)	
	081	414-105A	MOTOR	SUB ASSY SLALT (R,W-W)	
	082	437-009A	WORM	SUB ASSY,L	
	083	321-410A		ASSY	
	084	433-023A	BRACKET	SUB ASSY L/M	
	087	321-470A	WHEEL	WORM	
	088		BRACKET	ASSY DEW	
		435-448A	GEAR	PINCH (N)	
	090	442-347A	SPRING	PINCH	NSP
	091	386-210A	ARM	ASSY PINCH	NSP
	092	442-346A	SPRING	STOPPER	NSP
	093	334-050C	STOPPER	PINCH	NSP
OF	f	434-181A	ROLLER	ASSY PINCH	
	094	434-181B	ROLLER	PINCH D14 X L18	
	095	276-089B	CAP	PINCH	NSP
1	096	333-203A	LEVER	PINCH	NSP
	098	333-344A	LEVER	T-UP (N)	,,,,
	100	321-463A	BRACKET	SUB ASSY B	NSP
-	102	435-249A	GEAR	RAT1	NSP
İ	103	442-356A	SPRING	F-LEVER	NSP
	104	356-208A	PIN	F-LEVER	NSP
	106	442-345A	SPRING	RAT	
	107	333-202A	LEVER	RAT	NSP NSP

NSP: Not Service Part

s	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	Not Service Par REMARKS
		108	333-207A	LEVER	F17	
		110	374-005A	CAM	D17 POM 10G	NSP
		111	435-318A	GEAR		
		112	435-291A	GEAR	ASSY RACK F/L	
		113	435-246A	GEAR	ASSY RACK T PC POM 3G	
		114	414-121B	MOTOR		
		115	452-047A	BELT	CAPSTAN, GVC017S	
		116	256-734A	PLATE	CENTER D71.9 X SQRT2.0	
		117	442-342B	SPRING	F17 FP	
		120	338-089A	BRAKE		
		121	442-333A	SPRING	SUB ASSY CAP	1
		122	432-038A	PULLEY	CAPSTAN	
		130	337-005A	CLUTCH	GEAR POM 3G	
		131	324-643A	HOLDER	ASSY POM 7G FELT 20X1X1T 2EA	
	ľ	132	324-642A	HOLDER	LED	İ
		133	513-494B	PWB	R/S	
		134	556-133A	1	JUNCTION D-17 242X121X1.6T	NSP
	OR	134	556-133B	SWITCH	MODE	
	OR	135	0DL451000AA	SWITCH	MODE, ALPS	Ì
	On	135	0DL451000AA 0DL550000AB	DIODE LED	IR SENSOR GL451 (LONG) SHARP	
		136	657-102K	DIODE LED	IR SENSOR EL-55L(LONG) KOC	
		137		SENSOR	SG-105(REEL) D-16 KOC	
		138	556-131A 435-234A	SWITCH	ESE-105SV1	ĺ
		139		GEAR	LOAD(R)	
		140	442-330A	SPRING	LOADING	
			386-274A	ARM	SUB ASSY (R)	
		142	435-235A	GEAR	LOAD(L)	
		143	442-330B	SPRING	LOADING	
		144	386-273A	ARM	SUB ASSY (L)	
		146	333-218A	LEVER	ASSY A-TEN	
		150	321-527A	BRACKET	ASSY C-GUIDE	
		201 204	256-934B	PLATE	TOP	
		205	465-026A	OPENER	DOOR	1 1
-		206	321-517B	BRACKET	LEFT (D17)	
		207	321-518A	BRACKET	RIGHT (D17)	
		208	435-278A	GEAR	RACK N/D	
		210	256-910A	PLATE	GND TOP	
		213	321-440A	BRACKET	SIDE	
		214	442-351A	SPRING	OC	NSP
		215	465-028A	OPENER	CST	NSP
		216	442-357A	SPRING	RID	NSP
		217	465-027A	OPENER	RID	NSP
			324-647A	HOLDER	R	NSP
		218	321-407A	BRACKET	SUPPORT	NSP
		219	321-405A	BRACKET	CARRIER	NSP
		220	324-646A	HOLDER	L	NSP
		221	333-210A	LEVER	DT	NSP
		222	442-358B	SPRING	DT	NSP
		225	384-074A	GUIDE	CST	
			442-352A	SPRING	L	NSP
			435-254A	GEAR	L	NSP
				SPRING	S/W	
		1		LEVER	S/W	NSP
				SHAFT	D	NSP
				SPRING	R	NSP
		232	435-255A	GEAR	_ R	NSP

SAL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
+	233	435-256B	GEAR	C (HOOK ADDED)	NSP
	234	442-359C	SPRING	CUSHION (D17F/L)	NSP
	235	442-354A	SPRING	CC	NSP
	236	276-086A	CAP	DRIVE	NSP
			SCREW		
	400	1MDC0302418	PAN HEAD MACHINE SCREW P/WASH+	D 3.0 L 8.0 MSWR3/FZY	
	401	1MPK0261418	PAN HEAD MACHINE SCREW +,-	D 2.6 L 4.0 MSWR3/FZY	
	402	353-021D	SCREW	SPECIAL	
	404	353-048C	SCREW	CONE POINT 3X10	
	408	1MBC0302418	BINDING HEAD MACHINE SCREW +	D 3.0 L 8.0 MSWR3/FZY	
	411	353-046B	SCREW	SPECIAL (3X8 FZMY)	
	412	1MBC0302818	BINDING HEAD MACHINE SCREW +	D 3.0 L 12 MSWR3/FZY	
	421	1MPC0302618	PAN HEAD MACHINE SCREW +!	D3.0 L10.0,MSWR3/FZY	
	422	1MPC0302418	PAN HEAD MACHINE SCREW +!	D 3.0 L 8.0 MSWR3/FZY	
	425	1SRF0302418	BRAIZER HD TAP TITE SCREW +	D 3.0 L 8.0 MSWR3/FZY	
	426	1MPC0302018	PAN HEAD MACHINE SCREW +!	D 3.0 L 6.0 MSWR3/FZY	
			NUT, WASHER		•
П	503	354-020E	WASHER	STOPPER	
	504	354-001B	WASHER	P.S D3.1XD6X0.5T	
	505	354-080E	WASHER	STOPPER	
	506	352-025A	NUT	NYLON M3	
	507	354-020J	WASHER	STOPPER(2.6X4.8X0.5)	
	511	354-080C	WASHER	STOPPER	
	512	354-080E	WASHER	STOPPER	NSP
	513	354-080A	WASHER	STOPPER	NSP
	514	354-080B	WASHER	STOPPER	NSP
	516	354-033B	WASHER	STOPPER	

1-2. 8mm Mechanism

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
				ASSEMBLY PARTS	SECTION	
		A00	412-133A	DECK	SUB ASSY D-21 (F/L)	
		A01	413-306A	DRUM	ASSY	
		A02	225-282A	BASE	ASSY LOADING	
		A30	219-021A	HOUSING	ASSY F/L (D-21)	
		08A	412-132A	DECK	ASSY D-21 (F/L)	
				PARTS SEC	TION	
		001	414-156C	MOTOR	D-21 STATTOR, DRUM DM-21	NSP
		002	413-352A	DRUM	SUB ASSY	1101
		003	515-655B	PWB ASSY!	DRUM SIGNAL	NSP
		004	255-148A	PLATE	SIGNAL GROUND	INSF
		005	225-279A	BASE	ASSY DRUM	
		006	225-283A	BASE	SUB ASSY LOADING	
ı		007	225-285A	BASE	ASSY S/POST(T)	
		800	435-329A	GEAR	SUB ASSY LOADING(T)	
		009	435-327A	GEAR	CAM	
- [010	435-332A	GEAR	SUB ASSY LOADING(S)	
		011	225-288A	BASE	ASSY S/POST(S)	
		012	657-031A	SENSOR	ASSY LED	
		013	333-264A	LEVER		
		014	255-058A	PLATE	ASSY DRIVE	
		015	321-535A	BRACKET	L/BASE	
		016	386-310A	ARM	ASSY SLANT GUIDE	
		017	386-313A	ARM	ASSY SLANT ROLLER	
- 1		017	333-254A	LEVER	ASSY TENSION	
ļ		019	375-015A	DISC	ASSY BRAKE	
		020	222-019A		ASSY REEL(S)	
	ļ	020		PROTECTOR	T/BAND	
		021	321-534A	BRACKET	SENSOR	
			386-307A	ARM	ASSY IDLER	
		023	435-323A	GEAR	ASSY DRIVE	
- 1		024	452-054A	BELT	REEL DRIVE (YAMAUCHI)	
		025	322-051A	SUPPORTER	CST	
		026	657-032A	SENSOR	ASSY END	
		027	338-093A	BRAKE	ASSY SOFT	
		028	431-028A	IDLER	BELT	
		029	445-005A	SPACER	CAM GEAR	
		030	435-334A	GEAR	ASSY CONVERSION	
		040	414-137B	MOTOR	ASSY LOADING	
		041	313-041B	CHASSIS	ASSY MAIN(F/L)	NSP
		042	338-104A	BRAKE	CLUTCH	
		043	321-533A	BRACKET	RECOG S/W	
		044	515-680A	PWB ASSY!	ASSY JUNCTION	
		045	375-016A	DISC	ASSY REEL(T)	
	-	046	324-823A	HOLDER	SHAFT	
		047	333-267A	LEVER	ASSY T/UP	
		049	435-321A	GEAR	MIDDLE	
		050	435-348A	GEAR	ASSY TRANSFER	
1		051	414-141A	MOTOR	D-21 CAPSTAN MOTOR GSD	

	Α1	LOCANO	PART NO(GS) DESCRIPTION			DEMARKS	
3	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS	
		052	386-319A	ARM	ASSY PINCH		
		053	333-271A	LEVER	ASSY PINCH	NSP	
		054	333-269A	LEVER	ASSY MODE		
		055	333-286A	LEVER	ASSY EJECT		
		056	504-476A	PWB	MODE S/W		
		057	435-347A	GEAR	ASSY MODE		
1		058	442-486A	SPRING	T/UP ARM(C)		
		059	386-316A	ARM	ASSY T/UP		
	ĺ	060	352-028A	NUT	T/UP ARM(A)		
		061	352-030A	NUT	T/UP ARM(B)		
l		062	423-483A	SHAFT	ASSY WORM(L)		
		100	333-323A	LEVER	ASSY LOADING (L)	NSP	
		101	257-058A	PLATE	GEAR	1401	
		102	435-399A	GEAR	A		
		103	435-401A	GEAR	Ĉ		
		104	435-400A	GEAR	В		
		105	435-402A	GEAR	D		
		106	225-329A	BASE	SIDE (L)		
		107	257-057A	PLATE	SIDE (L)		
		108	414-162A	MOTOR			
		110		•	ASSY HOUSING		
			577-014A	PRISM	END SENSOR		
		111	225-332A	BASE	ASSY LOADING		
		112	257-060A	PLATE	ASSY BASE		
		113	225-328A	BASE	SIDE (R)		
		114	333-319A	LEVER	SWITCH	NSP	
		115	333-320A	LEVER	DOOR	NSP	
		116	442-593A	SPRING	LOCK(L)		
		117	333-318A	LEVER	LOCK	NSP	
		118	333-322A	LEVER	ASSY LOADING (R)	NSP	
		119	256-889A	PLATE	CGND		
		342	321-638A	BRACKET	ASSY DECK (8MM)		
				SCREW			
		400	353-078B	SCREW	MACHINE+2X9		
		401	353-152A	SCREW	PS (M1.7X2)		
		402	353-153A	SCREW	PS (M2X3)		
		403	353-153B	SCREW	PS (M2X3)		
1		404	353-153C	SCREW	1 '		
		405	353-153D	SCREW	PS (M2X5)		
		405	353-091C	SCREW	PS (M2X6)		
		407	1		SPECIAL M		
		408	1MFU0201418 353-062A	FLAT HEAD MACHINE SCREW PREC 1 SCREW	D 2.0 L 4.0 MSWR3/FZY STEP		
	<u> </u>		550 552.1	NUT, WASHER	0121		
-	Τ			,			
		500	354-101A	WASHER	SLIDE (1.5TX3.0X0.13)		
		501	354-099A	WASHER	STOP(1.25X3.0X0.25)		
		502	354-104A	WASHER	STOP (2.2X5.0X0.25)		
1		520	354-048E	WASHER	PS+D6XD2.6XT0.5		
		521	354-120A	WASHER	REELSTOP		
		1	l				

2. Cabinet & Main Frame Section

RUN DATE: 94.02.14
NSP: Not Service Part

S	AL LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		<u> </u>	ASSEMBLY PARTS SE	CTION	
	A40 A41 A42 A43	315-314C 232-683B 232-912S 258-597L	FRAME BOARD ASSY BOARD ASSY PANEL BOARD ASSY	ASSY MAIN KEY (8MM) VHS KEY & TIMER ASSY FRONT POWER1	NSP
	A44 A45 A46 A47 A48	232-868S 232-865P 232-864P 232-911P 232-867P	BOARD ASSY BOARD ASSY BOARD ASSY BOARD ASSY	VHS PRE-AMP MAIN (C+,VCR+) 8MM PRE-AMP 8MM MAIN	
			PARTS SECTION	N	
*	250 251 260 262 263 275 280 282 283 284 286 287 288 289 290 291 292 300 303 304 306 307 320 321 330 340 341	217-472B 321-526A 315-300B 257-061A 324-976A 324-872A 258-552E 226-072K 226-053F 442-469A 236-429B 236-429A 524-007M 321-492A 321-490A 435-427D 435-301A 681-051A 255-149A 221-407A 324-951A 221-144E 258-596G 257-006A 221-834A 226-064A 442-591A	CASE BRACKET FRAME PLATE HOLDER HOLDER HOLDER PANEL DOOR DOOR SPRING WINDOW WINDOW MAGNET BRACKET BRACKET GEAR GEAR CORD PLATE COVER HOLDER COVER PANEL PLATE COVER DOOR SPRING	TOP HOUSING MAIN GND (FTZ) PWB DIGITRON FRONT ASSY FRONT CST DOOR LIGHTING LIGHTING ASSY DOOR ASSY DOOR ASSY DOOR ASSY DAMPER ASSY DAMPER KKP-419J B-172 KLCE-2F PAL HEAT SINK FUSE TRANSISTER INSULATION ASSY DISTRIBUTOR BOTTOM GROUND BOTTOM FRONT DOOR	NSP NSP NSP
			SCREW		
	451 452 454 458 462 463 472	353-046C 353-051A 1TRL0402418 353-051C 353-136A 1MBC0302418 353-090A	SCREW SCREW BRAIZER HEAD TA SCREW + 2 CUT SCREW SCREW BINDING HEAD MACHINE SCREW + SCREW	(3X10 FZMY) SPECIAL D 4.0 L 8.0 MSWR3/FZY SPECIAL(3X12) SPECIAL(FBK) (353S353A) D 3.0 L 8.0 MSWR3/FZY SPECIAL TP	

3. Packing Accessory Section

RUN DATE: 94.02.14
NSP: Not Service Part

s	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		801	480-517U	INSTRUCTION ASSY		
		802	288-900A	BOX CARTON		
		803	283-217A	PACKING		
1		804	291-002D	SHEET CUSHION		NSP
		808	534-008C	BATTERY	AAAM(R03) 1.5V 1PAIR(LOCAL)	:
		810	861-507L	CABLE SET ASSY	PAL CABLE ASSY (3C-2V) MONO	

4. Remote Control Section

RUN DATE: 94.02.14

NSP: Not Service Part

s	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		900	597-089S	REMOTE CONTROL	R/C ASSY	
		901	236-484A	WINDOW	FILTER(R/C)	NSP
		902	221-858L	COVER	DOOR (R/C)	NSP
1		903	217-485B	CASE	TOP (R/C)	NSP
		904	275-610H	BUTTON	RUBBER FUNCTION	NSP
		905	275-612A	BUTTON	RUBBER VHS (R/C)	NSP
		906	275-611A	BUTTON	RUBBER 8MM (R/C)	NSP
		907	515-824C	PWB ASSY!	REMOCON	NSP
		908	442-611A	SPRING	COIL (R/C)	NSP
		909	217-486B	CASE	BOTTOM (R/C)	NSP
		910	221-857B	COVER	BATTERY	
		911	477-054A	RUBBER	BUMPON	NSP

5. Fixture Section

RUN DATE : 94.02.14

NSP: Not Service Part

s	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		FIX FIX1 FIX2	960-015J 232-972A 515-789A	FIXTURE BOARD ASSY PWB ASSY	SVC FIXTURE SVC FIXTURE FIXTURE (PRE-AMP)	

6. Electrical Section

RUN DATE: 94.02.14

CAUTION: The * marks in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. Before replacing any of these components, read carefully the SAFETY PRECAUTIONS and SERVICING PRECAUTIONS in the manual. Do not degrade the safety of the unit through improper servicing.

Tolerance

Symbol	С	J	К	M	N	Z	Р	Α
%	±2	±5	±10	±20	±30	+80 -20	+100 -10	+100 -10

CC, CJ, CK: Capacitor, Ceramic CE: Capacitor, Electrolytic CQ: Capacitor, Polyester

s	ΔΙ	LOCANO	PART NO(GS)	SPECIFICATION
_	\r	LOCA.140		
			CAP	ACITOR
		C001	0CN1040K948	0.1M 50V ZF TA26
		C002	0CN1040K948	0.1M 50V ZF TA26
		C003	0CN1040K948	0.1M 50V ZF TA26
	Ì	C004	0CN2230H948	0.022M 25V Z F TA26
	l	C005	0CN2230H948	0.022M 25V Z F TA26
		C006	0CN2230H948	0.022M 25V Z F TA26
	1	C007	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C008	0CN2230H948	0.022M 25V Z F TA26
		C009	0CN1030F678	0.01M 16V M Y TA26
		COOA	0CN2230H948	0.022M 25V Z F TA26
		C00B	0CN2230H948	0.022M 25V Z F TA26
		C010	0CN8200K518	82PF 50V K B TA26
		C012	0CN1520F668	1500P 16V M X TA26
		C013	0CX2700K408	27P 50V J SL TA26
		C014	0CN2230H948	0.022M 25V Z F TA26
		C015	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C016	0CN2710K518	270P 50V KB TA26
		C017	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C018	0CN2230H948	0.022M 25V Z F TA26
		C019	0CN3310K518	330P 50V K B TA26
		C020	0CE2244K638	0.22M SRA 50V M FM5 TP(5)
		C021	0CN2230H948	0.022M 25V Z F TA26
		C032	0CX4700K408	47P 50V J SL TA26
		1 [0CN1030F678	0.01M 16V M Y TA26
		C0AA C101	0CN8200K518 624-018A	82PF 50V K B TA26 LINE DE7100 FZ 472P VA1-KC
		C102	624-018A	
		C102	0CN4730K948	LINE DE7100 FZ 472P VA1-KC 0.047M 50V Z F TA26
		C103	0CN4730K948 0CE1076L610	100M SMS 63V M FM5
		C104	0CE1076L610	47M SMS 50V M FM5 TP
		C105	0CE4766K638	
		C100	0CE2266K638	22M SMS 50V M FM5 TP(5)
		C107		100M SMS 63V M FM5
		C108	0CE2266K638 0CE2266K638	22M SMS 50V M FM5 TP(5)
٠		C110		22M SMS 50V M FM5 TP(5)
		C110	624-025A	4700UF-35V(23X37)
		C112	0CE4786F610 0CE2266K638	4700M SMS 16V M FL
		C112	0CE2266K638	22M SMS 50V M FM5 TP(5)
		C115	0CE4766K638	22M SMS 50V M FM5 TP(5) 47M SMS 50V M FM5 TP
		C116	0CE4766K638	47M SMS 50V M FM5 IP
		C117	0CE4766F638	47M SMS 16V M FM5 TP5
		C118		470M SR 6.3V M FM5 TP(5)
		C119	0CE4766K638	47M SMS 50V M FM5 TP

S	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
		C120	0CE4766F638	47M SMS 16V M FM5 TP5
		C121	0CE4766K638	47M SMS 50V M FM5 TP
		C122	0CE4766F638	47M SMS 16V M FM5 TP5
		C123	0CN4730K948	0.047M 50V Z F TA26
		C124	0CN4730K948	0.047M 50V Z F TA26 ·
		C125	0CN4730K948	0.047M 50V Z F TA26
		C126	0CN4730K948	0.047M 50V Z F TA26
		C127	0CN4730K948	0.047M 50V Z F TA26
		C128		0.047M 50V Z F TA26
		C129	0CN4730K948	0.047M 50V Z F TA26
		C130		0.047M 50V Z F TA26
		C131	0CE4766K638	47M SMS 50V M FM5 TP
		C132	0CE4766F638	47M SMS 16V M FM5 TP5
		C133	0CE1074D638	100M SRA 10V M FM5 TP(5)
		C201	0CQ2234K409	0.022U 50V J POLY TE TP
		C202	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C203	UCQ4734K4U9	0.04/0 50V J POLY IE IP
		C204	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C205	0CQ2234K409	0.022U 50V J POLY TE TP
		C206	0CQ4734K409	0.047U 50V J POLY TE TP
		C207	0CE1054K636	1.0U SRA 50V M FM5 BP TP(D)
		C208	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C209	UCE1004F030	TUM SHATOV MIFMS IP(S)
		C210	0CQ8221N409	0.0082U 100V J POLY TP
		C211	0CQ2234K409	0.022U 50V J POLYTETP 0.047M 50V Z F TA26
		C212 C213	0CN4730K948 0CE1074F638	1001 CDA 16V M EME TO(5)
		C213	0CN4730K948	100U SRA 16V M FM5 TP(5) 0.047M 50V Z F TA26
		C215	0CN4730K948	0.047M 50V Z F TA26
		C216	0CE1074F638	0.047M 50V Z F TA26 100U SRA 16V M FM5 TP(5)
		C217	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
		C218	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
		C219		1.0U SRA 50V M FM5 BP TP(D)
		C220	0CE1054K636	1.0U SRA 50V M FM5 BP TP(D)
		C221	0CQ1221N409	0.0012U 100V J POLY TP
		C222	0CN1040K948	0.1M 50V ZF TA26
		C223	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
		C224	0CN1210K518	120P 50V KB TA26
		C225		150P 50V KB TA26
		C226		
		C227	0CE4764F638	10M SRA 16V M FM5 TP(5) 47M SRA/SS 16V M FM5 TP(5)
		C228	0CQ1021N409	0.001U 100V JPOLY TP
		C229	0CQ4734K409	0.001U 100V J POLY TP 0.047U 50V J POLY TE TP
		C230	0CN1030F678	0.01M 16V M Y TA26
		C231	0CE1074F638	100U SRA 16V M FM5 TP(5)

									HUN DATE : 94,02.14
S	AL	LOCA.NO	PART NO(GS)	SPECIFICATION	S	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
		C232	0CN4730K948	0.047M 50V Z F TA26			C327	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
1		C233	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)			C328	0CN3910K518	390P 50V KB TA26
		C234	0CN4730K948	0.047M 50V Z F TA26	1		C329	0CX5600K408	56P 50V J SL TA26
1		C235	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)	1		C330	0CC0500K015	5P 50V C NP0 TR
		C236	624-027A	GOLD 0.047F-5.5V D13.0X8.5 NEC	1		C331	0CN8200K518	82PF 50V K B TA26
1		C237	0CN4730K948	0.047M 50V Z F TA26	1		C332	0CC3900K415	39P 50V JNPOTP
		C238	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)			C333	0CX4700K408	47P 50V J SL TA26
1		C239	0CN4730K948	0.047M 50V Z F TA26	1		C334	0CE1066F638	10UF SMS 16V M FM5 TP5
1		C240	0CN1020K518	1000P 50V KB TA26			C335	0CE1066F638	10UF SMS 16V M FM5 TP5
		C241	0CN1020K518	1000P 50V KB TA26	1		C336	0CE3346K638	0.33M SMS 50V M FM5 TP(5)
	1	C242	OCN1030F678	0.01M 16V M Y TA26	1		C337	0CN2230H948	0.022M 25V Z F TA26
		C243	0CN1030F678	0.01M 16V M Y TA26	1	1	C338	0CQ2231N409	0.022W 23V 2 F 1A20
1		C244	0CN1020K518	1000P 50V KB TA26			C339	0CN2230H948	0.022M 25V Z F TA26
1		C245	OCN1030F678	0.01M 16V M Y TA26	1		C340	0CE1054K638	
1		C246	0CE1054K636	1.0U SRA 50V M FM5 BP TP(D)	1		C341		1.0M SRA/SS50V M FM5 TP(5)
İ	1	C247	0CN1040K948	0.1M 50V ZF TA26	1		C342	0CN4730K948	0.047M 50V Z F TA26
		C248			l			0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
			0CE4754K638	4.7M SRA 50V M FM5 TP(5)	1		C343	0CN4710K518	470P 50V KB TA26
1		C249	0CC1500K415	15P 50V J NPO TS	1		C344	0CN2230H948	0.022M 25V Z F TA26
İ	-	C250	0CC2400K415	24P 50V J NPO TP	1		C345	0CE4766F638	47M SMS 16V M FM5 TP5
		C291	0CE2254K638	2.2M SRA 50V M FM5 TP(5)	1		C346	0CN2230H948	0.022M 25V Z F TA26
The state of the s		C292	0CN4730K948	0.047M 50V Z F TA26	1		C347	0CE4766F638	47M SMS 16V M FM5 TP5
	i	C293	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)	ı		C348	0CN1030F678	0.01M 16V M Y TA26 .
i		C294	0CX2700K408	27P 50V J SL TA26	1		C349	0CE3346K638	0.33M SMS 50V M FM5 TP(5)
1		C295	0CN1030F678	0.01M 16V M Y TA26	ı		C350	0CN2230H948	0.022M 25V Z F TA26
1		C296	0CN1040K948	0.1M 50V ZF TA26	ı		C351	0CE4766F638	47M SMS 16V M FM5 TP5
		C297	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)	ı		C352	0CX6800K408	68P 50V J SL TA26
1		C298	0CN1030F678	0.01M 16V M Y TA26	ı		C353	0CE4766F638	47M SMS 16V M FM5 TP5
1	l	C299	0CN1030F678	0.01M 16V M Y TA26	1		C354	0CN1030F678	0.01M 16V M Y TA26
1	ļ	C2B1	0CE2254K638	2.2M SRA 50V M FM5 TP(5)	ı		C355	0CX4700K408	47P 50V JSL TA26
1	l	C2B2	0CN1040K948	0.1M 50V ZF TA26			C356	0CC0600K015	6P 50V C NPO TS
1		C301	0CN1030F678	0.01M 16V M Y TA26	1		C357	0CX3300K408	33P 50V J SL TA26
		C302	0CN1030F678	0.01M 16V M Y TA26	1		C358	0CE4766F638	47M SMS 16V M FM5 TP5
1	1	C303	0CN1010K518	100P 50V KB TA26			C359	0CN2230H948	0.022M 25V Z F TA26
1	i	C304	0CE1066F638	10UF SMS 16V M FM5 TP5			C360	0CN1030F678	0.01M 16V M Y TA26
		C305	0CE1064F636	10M SRA 16V M FM5 BP TP(D)			C361	0CN1030F678	0.01M 16V M Y TA26
1		C306	0CN2230H948	0.022M 25V Z F TA26			C362	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
	1	C307	0CE4766F638	47M SMS 16V M FM5 TP5			C367	0CE4766F638	47M SMS 16V M FM5 TP5
1		C308	0CX2700K408	27P 50V J SL TA26			C368	0CN2230H948	0.022M 25V Z F TA26
1		C309	0CE1066F638	10UF SMS 16V M FM5 TP5			C373	0CN1040K948	0.1M 50V ZF TA26
ŀ		C30G	0CN1030F678	0.01M 16V M Y TA26			C379	0CX1800K408	18P 50V JSL TA26
1		C30H	0CX1200K408	12P 50V J SL TA26	1		C381	0CX3900K408	39P 50V JSL TA26
1		C30J	0CX1800K408	18P 50V JSL TA26			C383	0CN2230H948	0.022M 25V Z F TA26
1		C30K	0CN1030F678	0.01M 16V M Y TA26			C384	0CE4766F638	47M SMS 16V M FM5 TP5
1		C30L	0CN1010K518	100P 50V KB TA26			C385	0CE3366F638	33M SMS 16V M FM5 TP(5)
		C30M	0CE4766F638	47M SMS 16V M FM5 TP5			C386	0CN1030F678	0.01M 16V M Y TA26
		C310	0CN4730K948	0.047M 50V Z F TA26	1		C387	0CC1210K405	120P 50V JSL TS
1		C311	0CE4766F638	47M SMS 16V M FM5 TP5			C388	0CQ5631N409	0.056U 100V JPOLY TP
		C312	0CN2230H948	0.022M 25V Z F TA26			C389	0CE4766F638	47M SMS 16V M FM5 TP5
		C313	0CN1030F678	0.01M 16V M Y TA26			C391	0CN1040K948	0.1M 50V ZF TA26
1		C314	0CN4730K948	0.047M 50V Z F TA26			C392	0CN2230H948	0.022M 25V Z F TA26
	l	C315	0CN1030F678	0.01M 16V M Y TA26			C393	0CE1074F638	100U SRA 16V M FM5 TP(5)
		C316	0CN2230H948	0.022M 25V Z F TA26			C394	0CX2700K408	27P 50V J SL TA26
1		C317	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)			C395	0CN5610K518	560P 50V KB TA26
		C318	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)			C396	0CX2700K408	27P 50V J.SL TA26
		C319	0CQ8221N409	0.0082U 100V J POLY TP			C397	0CN1030F678	0.01M 16V M Y TA26
		C320	0CN1030F678	0.01M 16V M Y TA26			C398	0CN1030F078	100P 50V KB TA26
1		C321	0CQ5631N409	0.056U 100V J POLY TP			C3A0	0CN1010K518	
		C322	0CX4700K408	47P 50V J SL TA26			C3A0		0.01M 16V M Y TA26
		C323	0CX2700K408	27P 50V JSL TA26			C3A2	0CN2230H948	0.022M 25V Z F TA26
		C324	0CX3900K408	39P 50V JSL TA26				0CE4766F638	47M SMS 16V M FM5 TP5
		C325	0CC1810K405	180P 50V JSL TP			C3A3	0CN1030F678	0.01M 16V M Y TA26
1	1	C326	0CX1500K408	15P 50V J.SL TA26			C3A4	0CX2200K408	22P 50V J SL TP26
			371.00011400	101 007 0 SL 1A20			C3A5	0CN2230H948	0.022M 25V Z F TA26

	_					,		,	RUN DATE : 94.02.14
s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION	s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
\vdash	-				-	-			
1	1	C3A6	0CN1030F678	0.01M 16V M Y TA26			C3J2	0CN2230H948	0.022M 25V Z F TA26
1		C3A7	0CX1800K408	18P 50V J SL TA26			C3J4	0CN8200K518	82PF 50V K B TA26
1		C3A8	0CN1030F678	0.01M 16V M Y TA26	1		C3J6	0CN1040K948	0.1M 50V ZF TA26
1		C3B0	0CE2254K638	2.2M SRA 50V M FM5 TP(5)			C401	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
1		C3B1	0CN1030F678	0.01M 16V M Y TA26			C402	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
1		C3B2	0CN1030F678	0.01M 16V M Y TA26			C405	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
ı		C3B3	0CN2230H948	0.022M 25V Z F TA26			C407	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
		C3B4	0CE4766F638	47M SMS 16V M FM5 TP5			C408	0CE4766F638	47M SMS 16V M FM5 TP5
		C3B5	0CN1040K948	0.1M 50V ZF TA26			C410	0CN1040K948	0.1M 50V ZF TA26
1		C3B6	0CE4744K638	0.47M SRA 50V M FM5 TP(5)			C411	0CE1064F638	10M SRA 16V M FM5 TP(5)
1		C3B7	0CC0700K015	7P 50V C NPO TS			C412	0CN1040K948	0.1M 50V ZF TA26
1		C3B8	0CE4744K638	0.47M SRA 50V M FM5 TP(5)			C413	0CN1040K948	0.1M 50V ZF TA26
1		C3B9	0CN2230H948	0.022M 25V Z F TA26			C414	0CE1066F638	10UF SMS 16V M FM5 TP5
1		C3C0	0CE1044K638	0.1M SRA 50V M FM5 TP(5)			C415	0CN1040K948	0.1M 50V Z.F TA26
		C3C1	0CN1210K518	120P 50V KB TA26			C416	0CQ8221N409	0.0082U 100V J POLY TP
		C3C2	0CC0600K015	6P 50V C NPO TS			C417	0CE2266F638	22M SMS 16V M FM5 TP5
		C3C3	0CX1000K408	10P 50V JSL TA26			C418	0CQ1531N409	0.015U 100V JPOLY TP
1		C3C4	0CN1030F678	0.01M 16V M Y TA26			C419	0CQ1031N409	0.01U 100V JPOLY TP
		C3C5	0CE4766F638	47M SMS 16V M FM5 TP5			C420	0CE1066F638	10UF SMS 16V M FM5 TP5
		C3C6	0CC3900K415	39P 50V J NPO TP			C421	0CE4766F638	47M SMS 16V M FM5 TP5
		C3C7	0CN2230H948	0.022M 25V Z F TA26			C422	0CN1030F678	0.01M 16V M Y TA26
1		C3C8	0CN1030F678	0.01M 16V M Y TA26			C423	0CE2266F638	22M SMS 16V M FM5 TP5
		C3C9	0CN1040K948	0.1M 50V ZF TA26	1		C424	0CQ1231N409	0.012U 100V J POLY TP
1		C3D0	0CE4766F638	47M SMS 16V M FM5 TP5			C425	0CE1074F638	100U SRA 16V M FM5 TP(5)
1		C3D1	0CN1030F678	0.01M 16V M Y TA26			C426	0CN1030F678	0.01M 16V M Y TA26
		C3D2	0CN1030F678	0.01M 16V M Y TA26			C427	0CQ1031N409	0.01U 100V J POLY TP
		C3D3	0CE1064F638	10M SRA 16V M FM5 TP(5)			C428	0CQ1031N409	0.01U 100V JPOLY TP
1		C3D4	0CN1030F678	0.01M 16V M Y TA26			C429	0CQ1031N409	0.01U 100V JPOLY TP
		C3D5	0CN1040K948	0.1M 50V ZF TA26			C430	0CQ1031N409	0.01U 100V J POLY TP
		C3D6	0CX1500K408	15P 50V JSL TA26			C431	0CE1074F638	100U SRA 16V M FM5 TP(5)
		C3D7	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)	-		C432	0CN1030F678	0.01M 16V M Y TA26
		C3D8	0CE4754K638	4.7M SRA 50V M FM5 TP(5)			C433	0CE4766F638	47M SMS 16V M FM5 TP5
		C3D9	0CN2230H948	0.022M 25V Z F TA26			C434		
		C3E1	0CE4766F638	47M SMS 16V M FM5 TP5			1	0CQ3331N409	0.033U 100V J POLY TP
1		C3E2	0CN1040K948	0.1M 50V ZF TA26			C435	0CN2210K518	220P 50V KB TA26
1		C3E3	0CE4754K638	4.7M SRA 50V M FM5 TP(5)			C436 C437	0CE3356K638	3.3M SMS 50V M FM5 TP(5)
		C3E4	0CE1064F638	10M SRA 16V M FM5 TP(5)				0CE1066F638	10UF SMS 16V M FM5 TP5
1		C3E6	0CN3310K518	330P 50V K B TA26	1		C438 C450	0CQ5631N409 0CN1040K948	0.056U 100V J POLY TP
l		C3E7	0CN1030F678				1		0.1M 50V ZF TA26
1		C3E9	0CE1044K638	0.01M 16V M Y TA26 0.1M SRA 50V M FM5 TP(5)			C451	0CN1040K948	0.1M 50V ZF TA26
1		C3F1	0CN1810K518				C4A0	0CE4766F638	47M SMS 16V M FM5 TP5
1		C3F2		180P 50V KB TA26			C4A1	0CN2230H948	0.022M 25V Z F TA26
1			0CE4766F638	47M SMS 16V M FM5 TP5			C4A2	0CE4766F638	47M SMS 16V M FM5 TP5
		C3F3 C3F4	0CN2230H948	0.022M 25V Z F TA26			C4A3	0CN1030F678	0.01M 16V M Y TA26
1			0CC0400K015	4P 50V CNPO TS			C4A4	0CN8200K518	82PF 50V K B TA26
		C3F5	0CX2200K408	22P 50V J SL TP26			C4A5	0CN3910K518	390P 50V KB TA26
1		C3F6	0CE4754K638	4.7M SRA 50V M FM5 TP(5)			C4A6	0CN1030F678	0.01M 16V M Y TA26
		C3F7	0CN1030F678	0.01M 16V M Y TA26	1		C4A7	0CN1520F668	1500P 16V M X TA26
		C3F9	0CN1030F678	0.01M 16V M Y TA26			C4A8	0CX5600K408	56P 50V J SL TA26
1		C3G0	0CN3910K518	390P 50V KB TA26			C4A9	0CN2220F668	2200P 16V M X TA26
		C3G1	0CN4710K518	470P 50V KB TA26	1		C4B0	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
		C3G2	0CE4766F638	47M SMS 16V M FM5 TP5			C4B1	0CN2220F668	2200P 16V M X TA26
1		C3G3	0CN2230H948	0.022M 25V Z F TA26			C4B2	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C3G4	0CE4766F638	47M SMS 16V M FM5 TP5			C4B3	0CE4766F638	47M SMS 16V M FM5 TP5
1		C3G5	0CN2230H948	0.022M 25V Z F TA26			C4B4	0CE4766F638	47M SMS 16V M FM5 TP5
		C3G6	0CN1030F678	0.01M 16V M Y TA26			C4B5	0CE2264F638	22M SRA 16V M FM5 TP(5)
		C3G7	0CN1010K518	100P 50V KB TA26			C4B6	0CN2220F668	2200P 16V M X TA26
		C3G8	0CN1020K518	1000P 50V KB TA26			C4B7	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C3G9	0CE4754K638	4.7M SRA 50V M FM5 TP(5)			C4B8	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C3H1	0CE1064F638	10M SRA 16V M FM5 TP(5)			C4B9	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C3H2	0CN1520F668	1500P 16V M X TA26			C4C1	0CN2210K518	220P 50V KB TA26
		СЗНЗ	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)			C4C2	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C3J1	0CE4766F638	47M SMS 16V M FM5 TP5			C4C3	0CE4766F638	47M SMS 16V M FM5 TP5
Ь									

									HON DATE , 54.02.14
s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION	s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
					\vdash	+	0554	00547045000	AZM CDA/CC 16V/M EME TD/5
		C4C5	0CN2230H948	0.022M 25V Z F TA26		1	C551	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C4C6	0CE4766F638	47M SMS 16V M FM5 TP5			C552	0CN1040K948	0.1M 50V Z F TA26
		C4C7	0CQ4731N409	0.047U 100V J POLY TP			C553	0CN1040K948	0.1M 50V ZF TA26
		C4C8	0CQ3331N409	0.033U 100V J POLY TP	1		C554	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
		C4C9	0CQ3331N409	0.033U 100V J POLY TP	1		C555	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C4D1	0CN2230H948	0.022M 25V Z F TA26			C556	0CN1040K948	0.1M 50V ZF TA26
		C4D2	0CE1064F638	10M SRA 16V M FM5 TP(5)			C557	0CN6820F668	6800P 16V M X TA26
		C4K0	0CN2230H948	0.022M 25V Z F TA26	1		C558	0CN1020K518	1000P 50V KB TA26
	ļ	C4K1	0CN1020K518	1000P 50V KB TA26			C559	0CN1040K948	0.1M 50V ZF TA26
	l l	C4K2	0CN2710K518	270P 50V KB TA26			C560	0CN1030F678	0.01M 16V M Y TA26
l		C4K3	0CN1030F678	0.01M 16V M Y TA26			C561	0CK3320K515	3300P 50V KB TS
1		C4K4	0CN1040K948	0.1M 50V ZF TA26			C562	0CK3320K515	3300P 50V KB TS
ļ		C4K5	0CC1000K015	10P 50V CNP0 TS	1		C563	0CK3320K515	3300P 50V KB TS
1		C4K6	0CC1000K015	10P 50V CNP0 TS	-		C5A1	0CN1040K948	0.1M 50V ZF TA26
		C4K7	0CN2230H948	0.022M 25V Z F TA26			C601	0CN2230H948	0.022M 25V Z F TA26
		C4K8	0CE4766F638	47M SMS 16V M FM5 TP5			C602	0CN1040K948	0.1M 50V ZF TA26
		C4K9	0CE4766F638	47M SMS 16V M FM5 TP5			C603	0CN1040K948	0.1M 50V Z F TA26
		C4K9	0CN4710K518	470P 50V KB TA26	ĺ		C604	0CN1040K948	0.1M 50V ZF TA26
		1		0.1M 50V ZF TA26			C605	0CN1040K948	0.1M 50V ZF TA26
		C4L2	0CN1040K948				C606	0CN1040K948	0.1M 50V ZF TA26
i		C4L3	0CN4710K518				C607	0CN1040K948	0.1M 50V ZF TA26
		C4L4	0CN1040K948		1		C608	0CN1040K948	0.1M 50V ZF TA26
		C4L5	0CQ4721N409	0.0047U 100V J POLY TP			1	0CN1040K948	0.1M 50V ZF TA26
	1	C4L6	0CX1200K408	12P 50V J SL TA26	-	1	C609		
		C4L7	0CN1030F678	0.01M 16V M Y TA26	ı		C610	0CN1040K948	
		C501	0CN1040K948	0.1M 50V ZF TA26		1	C611	0CN1040K948	0.1M 50V ZF TA26
	1	C502	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)	1		C612	0CN1040K948	0.1M 50V ZF TA26
		C503	0CN1040K948	0.1M 50V ZF TA26			C613	0CN1040K948	0.1M 50V ZF TA26
ı		C504	0CC1800K415	18P 50V J NPO TS			C614	0CN1040K948	0.1M 50V ZF TA26
1		C505	0CC2200K415	22P 50V J NP0 TS			C615	0CX1800K408	18P 50V JSL TA26
ı	1	C506	0CN1030F678	0.01M 16V M Y TA26			C631	0CN1010K518	100P 50V KB TA26
		C507	0CN1030F678	0.01M 16V M Y TA26			C632	0CN1020K518	1000P 50V KB TA26
		C508	0CN1020K518	1000P 50V KB TA26			C633	0CE4753F638	4.7M SRE 16V M FM5 TP(5)
		C509	0CN1040K948	0.1M 50V ZF TA26			C634	0CE2264F638	22M SRA 16V M FM5 TP(5)
		C510	0CN1030F678	0.01M 16V M Y TA26	1		C635	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
1		C511	0CN1030F678	0.01M 16V M Y TA26			C636	0CN1020K518	1000P 50V KB TA26
ı		C512	0CN1030F678	0.01M 16V M Y TA26			C651	0CE2254K638	2.2M SRA 50V M FM5 TP(5)
1		C513	0CN1020K518	1000P 50V KB TA26			C701	0CN1030F678	0.01M 16V M Y TA26
	1	C514	0CN1040K948	0.1M 50V ZF TA26	1		C703	0CN1030F678	0.01M 16V M Y TA26
1		C515	0CN1040K948	0.1M 50V ZF TA26			C704	0CN1030F678	0.01M 16V M Y TA26
1		C516	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)			C705	0CE1074F638	100U SRA 16V M FM5 TP(5)
1		C518	0CN1040K948	0.1M 50V ZF TA26			C706	0CN1030F678	0.01M 16V M Y TA26
1		C519	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)			C707	0CE4766F638	47M SMS 16V M FM5 TP5
		C520	0CN1040K948	0.1M 50V ZF TA26			C708	0CX3300K408	33P 50V J SL TA26
1		C531	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)			C715	0CE1066F638	10UF SMS 16V M FM5 TP5
		C532	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)			C716	0CQ2231N409	0.022U 100V JPOLY TP
1		C533	0CN6820F668	6800P 16V M X TA26			C717	0CN1040K948	0.1M 50V ZF TA26
1		C534	0CN1020K518	1000P 50V KB TA26			C718	0CQ2231N409	0.022U 100V JPOLY TP
		C535	0CN1040K948	0.1M 50V ZF TA26			C719	0CE2256K638	2.2M SMS 50V M FM5 TP(5)
1		C535	0CN1040K948	0.01M 16V M Y TA26			C721	0CE4766F638	47M SMS 16V M FM5 TP5
1			0CN1030F676	0.1M 50V ZF TA26			C722	0CN1030F678	0.01M 16V M Y TA26
		C537		0.1M 50V ZF TA26			C723	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C538	0CN1040K948				C724	0CE2256K638	2.2M SMS 50V M FM5 TP(5)
1		C539	0CN1040K948	0.1M 50V ZF TA26					8P 50V D NPO TS
		C540	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)			C726	0CC0800K115	
	1	C541	0CN4730K948	0.047M 50V Z F TA26			C727	0CX4700K408	47P 50V JSL TA26
1		C542	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)			C728	0CX4700K408	47P 50V JSL TA26
		C544	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)			C729	0CE4766F638	47M SMS 16V M FM5 TP5
1		C545	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)			C730	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C546	0CN1040K948	0.1M 50V ZF TA26			C731	0CQ4731N409	0.047U 100V JPOLY TP
		C547	0CN1040K948	0.1M 50V ZF TA26			C732	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
1		C548	0CN1030F678	0.01M 16V M Y TA26			C734	0CN1040K948	0.1M 50V ZF TA26
1		C549	0CE2264F638	22M SRA 16V M FM5 TP(5)			C735	OCN1030F678	0.01M 16V M Y TA26
		C550	0CN1030F678	0.01M 16V M Y TA26		ļ	C750	0CN1030F678	0.01M 16V M Y TA26
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									HUN DATE : 94.02.14
S	AL	LOCA.NO	PART NO(GS)	SPECIFICATION	S	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
		C751	0CE4766F638	47M SMS 16V M FM5 TP5			C858	0CN1020K518	1000P 50V KB TA26
1		C753	0CQ4731N409	0.047U 100V J POLY TP			C859	0CN4710K518	470P 50V KB TA26
		C770	0CN1040K948	0.1M 50V ZF TA26			C860	0CN1020K518	1000P 50V KB TA26
l		C771	0CQ1231N409	0.012U 100V J POLY TP			C861	0CN1020K518	1000P 50V KB TA26
1		C772	0CX2400K408	24P 50V JSL TA26			C862	0CN1040K948	0.1M 50V ZF TA26
l		C773	0CN1010K518	100P 50V KB TA26	1		C870	0CX6800K408	68P 50V J SL TA26
l		C774	0CN1010K518	100P 50V KB TA26	1		C871	0CX6800K408	68P 50V J SL TA26
l		C801	0CE1064F638	10M SRA 16V M FM5 TP(5)	1		C872	0CX6800K408	68P 50V J SL TA26
		C802	0CE1064F638	10M SRA 16V M FM5 TP(5)	ĺ		C8A0	0CE1074F638	100U SRA 16V M FM5 TP(5)
1		C803	0CE1064F638	10M SRA 16V M FM5 TP(5)			C8A1	0CN1010K518	100P 50V KB TA26
		C804	0CE1064F638	10M SRA 16V M FM5 TP(5)	1	1	C8A2	0CE4776F638	470UF SMS 16V M FM5 TP5
		C806	0CE1064F638	10M SRA 16V M FM5 TP(5)	1		C8A3	0CE1074F638	100U SRA 16V M FM5 TP(5)
		C807	0CE1064F638	10M SRA 16V M FM5 TP(5)			C8A4	0CC1210K415	120PF 50V 5 CH FM(5MM)
ŀ		C808	0CE1064F638	10M SRA 16V M FM5 TP(5)		1	C8A5	0CC1510K415	150P 50V J NPO TS
1		C809	0CE1064F638	10M SRA 16V M FM5 TP(5)	1		C8A6	0CE1074F638	100U SRA 16V M FM5 TP(5)
ı		C810	0CN1030F678	0.01M 16V M Y TA26			C8A7	0CN1030F678	0.01M 16V M Y TA26
1		C811	0CE2274C638	220M SRA 6.3V M FM5 TP(5)		1	C8A8		
1		C812	0CE2274C638 0CN1030F678	0.01M 16V M Y TA26			C8A9	0CE1074F638	100U SRA 16V M FM5 TP(5)
t								0CX3900K408	39P 50V J SL TA26
		C813	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)			C8B1	0CN1030F678	0.01M 16V M Y TA26
		C814	0CE1064F638	10M SRA 16V M FM5 TP(5)			C8B2	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
		C815	0CE1064F638	10M SRA 16V M FM5 TP(5)			C8B3	0CC1200K415	12P 50V J NPO TS
		C816	0CE1064F638	10M SRA 16V M FM5 TP(5)			C8B4	0CC3300K415	33P 50V J NPO TP
	1	C817	0CE1064F638	10M SRA 16V M FM5 TP(5)		1	C8C1	0CN1040K948	0.1M 50V ZF TA26
l		C818	0CE1064F638	10M SRA 16V M FM5 TP(5)		1	C901	0CN2230H948	0.022M 25V Z F TA26
		C819	0CE1064F638	10M SRA 16V M FM5 TP(5)		1	C902	0CE2244K638	0.22M SRA 50V M FM5 TP(5)
		C820	0CE4775C638	470M SR 6.3V M FM5 TP(5)		1	C903	0CX3900K408	39P 50V JSL TA26
		C821	0CN1020K518	1000P 50V KB TA26		1	C904	0CX3900K408	39P 50V JSL TA26
1		C822	0CN1020K518	1000P 50V KB TA26			C905	0CE2244K638	0.22M SRA 50V M FM5 TP(5)
ł		C823	0CN1030F678	0.01M 16V M Y TA26			C906	0CN2230H948	0.022M 25V Z F TA26
l		C824	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)		1	C907	0CN2230H948	0.022M 25V Z F TA26
l		C825	0CE1064F638	10M SRA 16V M FM5 TP(5)	1		C908	0CE2244K638	0.22M SRA 50V M FM5 TP(5)
1		C826	0CE1064F638	10M SRA 16V M FM5 TP(5)			C909	0CX3900K408	39P 50V J SL TA26
1		C827	0CE1064F638	10M SRA 16V M FM5 TP(5)	1		C910	0CX3900K408	39P 50V J SL TA26
1		C828	0CE1064F638	10M SRA 16V M FM5 TP(5)	1		C911	0CE2244K638	0.22M SRA 50V M FM5 TP(5)
1		C829	0CN1020K518	1000P 50V KB TA26			C912	0CN2230H948	0.022M 25V Z F TA26
1		C830	0CN1020K518	1000P 50V KB TA26	1		C913	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
l		C832	0CE1064F638	10M SRA 16V M FM5 TP(5)			C914	0CN1030F678	0.01M 16V M Y TA26
		C833	0CE1064F638	10M SRA 16V M FM5 TP(5)	1		C915	0CX3300K408	33P 50V J SL TA26
l		C834	0CE1064F638	10M SRA 16V M FM5 TP(5)	1		C916	0CN2230H948	0.022M 25V Z F TA26
ĺ		C835	0CE1064F638	10M SRA 16V M FM5 TP(5)	1		C917	0CN1030F678	0.01M 16V M Y TA26
l		C836	0CE1064F638	10M SRA 16V M FM5 TP(5)			C918	0CN1030F678	0.01M 16V M Y TA26
l		C837	0CE1064F638	10M SRA 16V M FM5 TP(5)			C919	0CE1044K638	0.1M SRA 50V M FM5 TP(5)
1		C838	0CE1064F638	10M SRA 16V M FM5 TP(5)	1		C920	0CN1030F678	0.01M 16V M Y TA26
		C839	0CE1064F638	10M SRA 16V M FM5 TP(5)			C921	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C840	0CE1064F638	10M SRA 16V M FM5 TP(5)	1		C922	0CN3310K518	330P 50V K B TA26
		C841	0CE1064F638	10M SRA 16V M FM5 TP(5)	1		C923	0CN3310K318	0.01M 16V M Y TA26
		C842	0CE1064F638	10M SRA 16V M FM5 TP(5)	1		C924	0CC0400K015	4P 50V C NPO TS
		C843	0CN1030F678	0.01M 16V M Y TA26	1		C924	0CC0400K015 0CN1030F678	0.01M 16V M Y TA26
		C844	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)	1			0CN1030F678	
1		C845	0CE4704F638				C926		0.01M 16V M Y TA26
		C846		10M SRA 16V M FM5 TP(5) 0.001U 100V JPOLY TP			C927	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C847	0CQ1021N409				C928	0CX2700K408	27P 50V J.SL TA26
			0CQ1031N409	0.01U 100V J POLY TP			C929	0CN1030F678	0.01M 16V M Y TA26
		C848	0CQ3321N409	0.0033U 100V J POLY TP			C930	0CN8200K518	82PF 50V K B TA26
		C849	0CQ6831N409	0.068U 100V J POLY TP			C932	0CN3310K518	330P 50V K B TA26
Ì		C850	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)			C933	0CC0300K015	3P 50V C NPO TS
		C851	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)				DI	ODE
		C852	0CN1010K518	100P 50V KB TA26	1			יוט	ODE
		C853	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)			D001	0DD131000AA	199131 DETECT CHURCHANTE POUL
		C854	0CQ4721N409	0.0047U 100V J POLY TP				0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM
		C855	0CQ3331N409	0.033U 100V J POLY TP			D101	0DD400300DA	RECT.1N4003(KARIBONG)
		C856	0CN1040K948	0.1M 50V ZF TA26			D102	0DD400300DA	RECT.1N4003(KARIBONG)
		C857	0CN4710K518	470P 50V KB TA26			D103	0DD400300DA	RECT.1N4003(KARIBONG)
	\sqcup						D105	0DD402000AC	BRIDGE RBA-402 SANKEN

s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION	
		D106	0DD402000AC	BRIDGE RBA-402 SANKEN	
		D107	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM	-
		D108	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM	
		D201	ODD131009AA	1SS131 DETECT,SW(26MM)TP ROHM	
		D202	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM 1SS131 DETECT,SW(26MM)TP ROHM	
		D203 D204	0DD131009AA 0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH	
		D204 D205	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH	
		D206	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM	
		D207	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM	L
		D208	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM	
ļ		D209	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM	
Ì		D210	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH	
		D211	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH	
		D212	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH	
ĺ		D213	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH	
		D301	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM 1SS131 DETECT,SW(26MM)TP ROHM	l
	_	D302 D303	0DD131009AA 0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM	
		D303	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM	
l		D3A1	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM	
		D3A2	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM	
1		D3A3	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM	
		D3A4	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM	
		D3A5	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM	
l		D3A6	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM	
l		D3A8	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM	
		D3A9 D401	0DD131009AA 0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM 1SS131 DETECT,SW(26MM)TP ROHM	
		D401	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM	
		D402	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM	
1		D404	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM	
ı		D501	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH	ı
		D502	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH	١
1		D503	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH	
ı		D505	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM	
		D506	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM	
		D521	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH	1
1		D522 D601	0DD400309AB 0DD131009AA	IN4003A(1SR35-200A)5M/M TP ROH 1SS131 DETECT,SW(26MM)TP ROHM	
		D602	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM	
		D602	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM	
		D604	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM	
		D8A2	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM	
		D901	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM	
			DISPL	AY TUBE	7
\vdash	T	DG601	514-031A	13BT-133GK DD1 FUTABA	1
			DEL	AY LINE	
	Т	DL301	617-011A	MS-31PC (KSS)	+
L		FL3A1	617-011A	MS-31PC (KSS)	4
			F	USE	
1		F101	585-011A	T 500MA 250V S504	
1		F102	585-011H	T 2.5A, 250V S506	
L		F103	585-011H	T 2.5A, 250V S506	
			F	LTER	
Ŀ		FL101	616-004B	LINE 801-302-FD(BUJEON)	
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s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION					
		FL301	616-064B	L/C LPF1.5-1B(YL-0170A)S/S					
		FL302	616-053A	HPF 1.4MHZ (DAE SHIN)					
		FL3A2	616-234A	A285TCHS-K5305 CAN-COIL					
		FL3A3	616-234B	A285TCHS-K5306 DD1P K-TOKO					
		FL3A5	616-126G	L/C BPF CB0067 4.43BPF S/S					
		FL401	616-069C	LPF 12KHZ(JH-1058) SAMMI					
		FL4A1	616-835B	L/C CBP 1.5 S/S					
		Z301	616-323A	SFE4.25MBF (MURATA)					
		Z701	616-099B	SAW 0FWG1962 (SIEMENS) B/G					
		Z703	616-036B	TRAP TPS5.5MB MURA					
		Z705	616-038B	CERAMIC,SFE5.5MB MURA					
		Z706	616-714A	MKT40MA100P MURATA					
	IC								
		IC001	0lHI118019A	HA118019NT(PRE-AMP 4HD)					
		IC101	0ISA514270A	STK51427(PWR REG HYBRID)					
		IC102	0IMA780600A	AN7806 6V1AREG MATSUSHITA					
		IC103	0IMA781200A	AN7812(12V REGIA) MATSUSHI					
		IC104	0IMA781200A	AN7812(12V REGIA) MATSUSHI					
		IC201	01MI381840G	M38184MA-111FP(SY+TI)					
		IC202	01H1497560A	HD49756NT(SERVO)					
		IC203	0IGS744500A	GL7445 (MOTOR DRIV-1CH) GSS					
		IC204	0IXI240200B	X24C02.8D EEP-ROM(2K CMOS)					
		IC205	0IMT523000B	PST-523G/T(3.3V) LOW					
		IC206	01RH704800A	BA7048N(ENVLOPE-DETECT)					
		IC301	0ISA739000A	LA7390(PAL,Y/C1CHIP)					
		IC303	0IRH702500A	BA7025L PAL/MESECAM SYNC DETEC					
		IC304	0IKK740300B	MSM7403RS(2H CCD) DIP-PACK					
		IC3A1	01HI118172A	HA118172F(Y/C 8MM)HARD TRAY					
		IC3A2	01KK740300A	MSM7403MS(2H CCD)FLAT KINSEKI					
		IC3A3	0ISO120300A	CXA1203M(8MM PAL JOG)SOP-24P-L					
		IC401	0IRH779000A	BA7790LS(AUDIO NORMAL)					
	OF		0IGS381600A	GL3816					
		IC402	0ISA701600A	LA7016 ANALOG SW					
		IC403	0ISA722200A	LA7222 (1280 AUDIO)					
		IC4A1	0ISA745400A	LA7454W(FM AUDIO 8MM)HARD TRAY XR-10823(ATF)QFP32					
	05	IC4K1	0IEX108230A	CXP80724-191Q(SOFT SER 24K)					
	OF		0ISO807240D 0ISO807240F	CXP80724-191Q(SOF1 SEH 24R) CXP80724-196Q(8MMSY+SER)					
		IC501	0IMT523000C	PST-523D/T					
		IC502 IC503	0ISA183600A	LB1836M(LOAD DRIV) TAPE&REEL					
		IC504	0IGS358000C	GL358D(OP-AMP)					
		IC505	0ISO112700A	CXA1127M-T6 CAP-M DRIV 30SOP					
		IC506	0ISO151200A	CXA1512M					
		IC507	0IGS740600A	GL7406 (MOTOR DRIV) TAPING					
		IC601	0IRH152180B	BA15218(HEAD-PHONE AMP)DIP					
		IC602	0INE163110A	UPD16311GC-AB6 FIP DRIV 52PQFP					
		IC701	01PH980200A	TDA9802(VIF PAL+SECAM-L)					
		IC801	0ISA795400A	LA7954 9S SWITCHING					
		IC802	0ISA722200A	LA7222 (1280 AUDIO)					
		IC803	0ISA795400A	LA7954 9S SWITCHING					
		IC804	0ISA722200A	LA7222 (1280 AUDIO)					
		IC805	0JR224500A	NJM2245S(A/V S/W 6DB) 9SIP					
		IC806	0IJR224900A	NJM2249L S/W (8 PIN SIP)					
ı		IC807	01PH470000A	SAA4700 VPS DECODER					
		IC808	0IJR222900A	NJM2229S SYNC SEPA (SIP PACK)					
		IC8A1	0IMI350100E	M35010-094SP(OSD Q40W)RUSSIAN					
L		IC901	01H1118019A	HA118019NT(PRE-AMP 4HD)					
			J	ACK					
Г	Τ	JK601	572-059D	JPJ1022-01-840					
_		.1.	1	1					

s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION		S	AL	LOCA.NO	PART NO(GS)	SPECIFI
		JK602	572-059C	JPJ1022-01-830				L404	0LR1000K035	100M K 6X6 L5
		JK603	572-055A	MIC HSJ1406-01-010				L405	0LA0152K018	15M K 2.3X3.4 L5
			_	OIL				L4A1	0LR1000K035	100M K 6X6 L5
			C	OIL				L4A2	0LA0562K018	56M K 2.3X3.4 L5
		L001	0LR1000K035	100M K 6X6 L5 TP				L4A3	0LA1200K018	120M K 2.3X3.4 L5
		L002	0LA0471K018	4.7M K 2.3X3.4 L5 TP	П			L4A4	0LR1000K035	100M K 6X6 L5 1
		L003	0LR3300K035	330M K 6X6 L5 TP				L4A5 L4K1	0LR1000K035	100M K 6X6 L5 1 180M K 2.3X3.4 L5
1		L004	0LR8200K035	820M K 6X6 L5 TP				L4K1 L4K2	0LA1800K018 0LR1000K035	100M K 6X6 L5
		L005	0LA0332K018	33M K 2.3X3.4 L5 TP				L4K3	0LR1000K035	100M K 6X6 L5
		L006	0LR1800K035	180M K 6X6 L5 TP				L501	0LR1000K035	100M K 6X6 L5
		L007	0LR1000K035	100M K 6X6 L5 TP				L502	0LR1000K035	100M K 6X6 L5 1
		L008	0LR1000K035	100M K 6X6 L5 TP				L503	0LA0101K018	1.0M K 2.3X3.4 L5
		L201	0LR1000K035	100M K 6X6 L5 TP				L504	0LR1000K035	100M K 6X6 L5 1
		L202 L203	0LR1000K035	100M K 6X6 L5 TP				L505	0LR1000K035	100M K 6X6 L5 1
		L203	0LR1000K035	100M K 6X6 L5 TP				L506	0LR1000K035	100M K 6X6 L5
		L204	0LR1000K035 0LR1000K035	100M K 6X6 L5 TP 100M K 6X6 L5 TP				L507	0LR1000K035	100M K 6X6 L5 1
		L205	0LA1000K033	100M K 2.3X3.4L5 TP				L508	0LR1000K035	100M K 6X6 L5 1
		L200	0LR1000K035	100M K 6X6 L5 TP				L521	0LA0102K018	10M K 2.3X3.4 L5 T
		L292	0LA0472K018	47M K 2.3X3.4 L5 TP				L601	0LA1000K018	100M K 2.3X3.4 L5
-		L2B1	0LA0102K018	10M K 2.3X3.4 L5 TP				L602	0LA1000K018	100M K 2.3X3.4 L5
		L2B2	0LA1000K018	100M K 2.3X3.4 L5 TP				L631	0LA1000K018	100M K 2.3X3.4 L5
İ		L301	0LR1000K035	100M K 6X6 L5 TP				L701 L702	0LA0101K018 0LR1000K035	1.0M K 2.3X3.4 L5 1 100M K 6X6 L5 1
		L302	0LR1000K035	100M K 6X6 L5 TP				L702	0LA0222K018	22M K 2.3X3.4 L5 1
		L303	0LR0472K035	47M K 6X6 L5 TP				L707	0LR1000K035	100M K 6X6 L5 1
		L304	0LR0272K035	27M K 6X6 L5 TP				L708	0LA0102K018	10M K 2.3X3.4 L5 T
		L305	0LA0152K018	15M K 2.3X3.4 L5 TP				L709	0LA0152K018	15M K 2.3X3.4 L5 1
		L306	0LA0332K018	33M K 2.3X3.4 L5 TP				L710	0LA0101K018	1.0M K 2.3X3.4 L5 1
		L307	0LA0471K018	4.7M K 2.3X3.4 L5 TP				L711	0LR0121K035	1.2M K 6X6 L5 T
		L308 L309	0LR1000K035 0LR1000K035	100M K 6X6 L5 TP	П			L712	0LA1000K018	100M K 2.3X3.4 L5
		L310	0LR1000K035	100M K 6X6 L5 TP 100M K 6X6 L5 TP	П			L713	0LA1000K018	100M K 2.3X3.4 L5
	ľ	L311	0LR1000K035	100M K 6X6 L5 TP				L720	0LR1000K035	100M K 6X6 L5 T
		L312	0LA0332K018	33M K 2.3X3.4 L5 TP				L802	0LA1000K018	100M K 2.3X3.4 L5
- 1		L313	0LA0472K018	47M K 2.3X3.4 L5 TP				L803 L804	0LA1000K018	100M K 2.3X3.4 L5
		L314	0LR8200K035	820M K 6X6 L5 TP				L805	0LR1000K035 0LA1000K018	100M K 6X6 L5 T
		L315	0LA0472K018	47M K 2.3X3.4 L5 TP				L806	0LA1000K018	100M K 2.3X3.4 L5
		L317	0LR1000K035	100M K 6X6 L5 TP				L807	0LA1000K018	100M K 2.3X3.4 L5
- 1		L318	0LR1000K035	100M K 6X6 L5 TP				L808	0LA1000K018	100M K 2.3X3.4 L5
		L322	0LA0681K018	6.8M K 2.3X3.4 L5 TP				L809	0LA1000K018	100M K 2.3X3.4 L5
		L323	0LR1000K035	100M K 6X6 L5 TP				L810	0LA1000K018	100M K 2.3X3.4 L5
		L324	637-013B	PECK 6.80MH-J NYE				L811	0LR1000K035	100M K 6X6 L5 T
		L325 L326	0LA0122K018	12M K 2.3X3.4 L5 TP				L8A1	0LA0561K018	5.6M K 2.3X3.4 L5 T
ļ		L327	0LA0181K018 0LA0332K018	1.8M K 2.3X3.4 L5 TP 33M K 2.3X3.4 L5 TP				L8A2	0LR1000K035	100M K 6X6 L5 T
		L3A0	0LR1000K035	100M K 6X6 L5 TP				L8A3	0LA0332K018	33M K 2.3X3.4 L5 T
		L3A1	0LR1000K035	100M K 6X6 L5 TP				L901	0LR1000K035	100M K 6X6 L5 T
		L3A2	0LA0472K018	47M K 2.3X3.4 L5 TP				L902	0LR1000K035	100M K 6X6 L5 T
		L3A3	0LR1000K035	100M K 6X6 L5 TP				L903	0LR1000K035	100M K 6X6 L5 T
ŀ		L3A4	0LR0332K035	33M K 6X6 L5 TP				L904 L905	0LA0122K018 0LA0272K018	12M K 2.3X3.4 L5 T
		L3A5	0LA1800K018	180M K 2.3X3.4 L5 TP				L905	0LA0272K018	27M K 2.3X3.4 L5 T
		L3A7	0LA0102K018	10M K 2.3X3.4 L5 TP				L907	0LA0472K018	47M K 2.3X3.4 L5 T 10M K 2.3X3.4 L5 T
ĺ		L3A8	0LR1000K035	100M K 6X6 L5 TP				L908	0LA1800K018	180M K 2.3X3.4 L5 T
		L3B1	0LA0682K018	68M K 2.3X3.4 L5 TP				T401	633-032C	BIAS-OSC(MISUMI)
	Ì	L3B3	0LA0152K018	15M K 2.3X3.4 L5 TP				T402	633-032C	BIAS-OSC(MISUMI)
l		L3B5	0LR1000K035	100M K 6X6 L5 TP				T701	633-085A	V-COIL 2920N-K559
		L3B6	0LR1000K035	100M K 6X6 L5 TP				W777	0LA1000K018	100M K 2.3X3.4 L5 T
	- [L3C1	0LR1000K035	100M K 6X6 L5 TP	it				-	
,	-	L3C2 L401	0LA0222K018 0LR1502J045	22M K 2.3X3.4 L5 TP 0.015H J 6X7 L5 TP					L	ED
	ŀ				L					
		L401	0LR1000K035	100M K 6X6 L5 TP	ſ			LED601	0DL112000AK	DL-11S2GNS(SUPP

s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
		L404	0LR1000K035	100M K 6X6 L5 TP
		L405	0LA0152K018	15M K 2.3X3.4 L5 TP
		L4A1	0LR1000K035	100M K 6X6 L5 TP
		L4A2	0LA0562K018	56M K 2.3X3.4 L5 TP
		L4A3	0LA1200K018	120M K 2.3X3.4 L5 TP
		L4A4	0LR1000K035	100M K 6X6 L5 TP
		L4A5	0LR1000K035	100M K 6X6 L5 TP
		L4K1	0LA1800K018	180M K 2.3X3.4 L5 TP
		L4K2	0LR1000K035	100M K 6X6 L5 TP
		L4K3 L501	0LR1000K035 0LR1000K035	100M K 6X6 L5 TP 100M K 6X6 L5 TP
		L501	0LR1000K035	100M K 6X6 L5 TP
		L503	0LA0101K018	1.0M K 2.3X3.4 L5 TP
		L504	0LR1000K035	100M K 6X6 L5 TP
	ļ	L505	0LR1000K035	100M K 6X6 L5 TP
		L506	0LR1000K035	100M K 6X6 L5 TP
		L507	0LR1000K035	100M K 6X6 L5 TP
		L508	0LR1000K035	100M K 6X6 L5 TP
		L521	0LA0102K018	10M K 2.3X3.4 L5 TP
		L601	0LA1000K018	100M K 2.3X3.4 L5 TP
		L602	0LA1000K018	100M K 2.3X3.4 L5 TP
		L631 L701	0LA1000K018 0LA0101K018	100M K 2.3X3.4 L5 TP 1.0M K 2.3X3.4 L5 TP
		L701	0LR1000K035	100M K 6X6 L5 TP
		L703	0LA0222K018	22M K 2.3X3.4 L5 TP
		L707	0LR1000K035	100M K 6X6 L5 TP
		L708	0LA0102K018	10M K 2.3X3.4 L5 TP
		L709	0LA0152K018	15M K 2.3X3.4 L5 TP
		L710	0LA0101K018	1.0M K 2.3X3.4 L5 TP
		L711	0LR0121K035	1.2M K 6X6 L5 TP
		L712	0LA1000K018	100M K 2.3X3.4 L5 TP
		L713 L720	0LA1000K018 0LR1000K035	100M K 2.3X3.4 L5 TP 100M K 6X6 L5 TP
		L802	0LA1000K018	100M K 2.3X3.4 L5 TP
		L803	0LA1000K018	100M K 2.3X3.4 L5 TP
		L804	0LR1000K035	100M K 6X6 L5 TP
		L805	0LA1000K018	100M K 2.3X3.4 L5 TP
		L806	0LA1000K018	100M K 2.3X3.4 L5 TP
		L807	0LA1000K018	100M K 2.3X3.4 L5 TP
		L808	0LA1000K018	100M K 2.3X3.4 L5 TP
		L809	0LA1000K018	100M K 2.3X3.4 L5 TP
		L810 L811	0LA1000K018	100M K 2.3X3.4 L5 TP 100M K 6X6 L5 TP
		L8A1	0LR1000K035 0LA0561K018	5.6M K 2.3X3.4 L5 TP
		L8A2	0LR1000K035	100M K 6X6 L5 TP
		L8A3	0LA0332K018	33M K 2.3X3.4 L5 TP
		L901	0LR1000K035	100M K 6X6 L5 TP
		L902	0LR1000K035	100M K 6X6 L5 TP
		L903	0LR1000K035	100M K 6X6 L5 TP
		L904	0LA0122K018	12M K 2.3X3.4 L5 TP
		L905	0LA0272K018	27M K 2.3X3.4 L5 TP
		L906 L907	0LA0472K018 0LA0102K018	47M K 2.3X3.4 L5 TP 10M K 2.3X3.4 L5 TP
		L907 L908	0LA1800K018	180M K 2.3X3.4 L5 TP
		T401	633-032C	BIAS-OSC(MISUMI) 70KHZ
		T402	633-032C	BIAS-OSC(MISUMI) 70KHZ
		T701	633-085A	V-COIL 2920N-K5592Z 77.8 TOKO
		W777	0LA1000K018	100M K 2.3X3.4 L5 TP
				ED
		LED601	0DL112000AK	DL-11S2GNS(SUPPER,GREEN,03)KOC
		LED621	0DL112000AK	DL-11S2GNS(SUPPER,GREEN,03)KOC

s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION			
			MODU	JLATOR			
		MD701	592-808A	MCB8-UG3630 PAL B/G WO ATT			
	CIRCUIT BOARD ASSEMBLY						
		PBIO0 PBJT0 PBM00 PBP01 PBP02 PBP03	515-866P 515-908B 515-864P 515-868S 515-869S 515-870S	I/O BOARD JUNCTION 2 (G/S) MAIN (C+,VCR+) POWER1 POWER2 POWER3			
		PBT00	515-9128	VHS KEY & TIMER			
			TRANS	FORMER			
*		PT101	641-340B	230V/240V/50HZ			
	_		TRAN	ISISTOR			
		Q001 Q003 Q009 Q010 Q011 Q101 Q102 Q103 Q201 Q202 Q203 Q204 Q205 Q206 Q207 Q208 Q209 Q210 Q211 Q212 Q213 Q214 Q251 Q252 Q291 Q292 Q293 Q292 Q293 Q293 Q294 Q210 Q211 Q212 Q213 Q214 Q251 Q214 Q251 Q215 Q216 Q217 Q217 Q218 Q218 Q219 Q210 Q211 Q211 Q212 Q213 Q214 Q25 Q210 Q211 Q211 Q212 Q213 Q214 Q25 Q210 Q211 Q211 Q212 Q213 Q214 Q25 Q210 Q211 Q212 Q213 Q214 Q25 Q29 Q210 Q211 Q25 Q29 Q29 Q29 Q29 Q29 Q29 Q29 Q29 Q29 Q29	OTR126709AC OTR319909AE OTR319909AE OTR319909AE OTR319909AE OTR323609AB OTR966009AA OTR223609AB OTR103009AF OTR103009AF OTR103009AF OTR319809AC OTR103009AE OTR1126609AE OTR1126609AE OTR119809AC OTR319809AC	KTA1267-GR MINI TP KEC KTC3199-GR MINI TP KEC KTC3199-GR MINI TP KEC KTC3199-GR MINI TP KEC KTC3199-GR MINI TP KEC KTC3199-GR MINI TP KEC KTC2236A-Y=KTC3205Y TP KEC KTC4236A-Y=KTC3205Y TP KEC KTC4236A-Y=KTC3205Y TP KEC KTC4236A-Y=KTC3205Y TP KEC KTC4236A-Y=KTC3205Y TP KEC KTC43198-TP (KTC4203) KEC KTC43198-TP-8L (KTC1815)KEC KTC43198-TP-8L (KTC1815)KEC KTC43198-TP-8L (KTC1815)KEC KTC43198-TP-8L (KTC1815)KEC KTC43198-TP-8L (KTC1815)KEC KTC43198-TP-8L (KTC1815)KEC KTC43198-TP-8L (KTC1815)KEC KTC43198-TP-8L (KTC1815)KEC KTC403M-TP (KTC1203) KEC KTC103M-TP (KTC1203) KEC KTC3198-TP-8L (KTC1815)KEC KTC103M-TP (KTC1203) KEC KTC103M-TP (KTC1203) KEC KTC103M-TP (KTC1203) KEC KTC103M-TP (KTC1203) KEC KTC103M-TP (KTC1203) KEC KTC103M-TP (KTC1203) KEC KTC103M-TP (KTC1203) KEC KTC103M-TP (KTC1203) KEC KTC103M-TP (KTC1203) KEC KTC103M-TP (KTC1203) KEC KTC1198-TP-8L (KTC1815)KEC KTC1198-TP-8L (KTC1815)KEC KTC3198-TP-8L (KTC1815)KEC			
		Q309 Q310 Q311 Q312	0TR319809AC 0TR319809AC 0TR319809AC 0TR103009AE	KTC3198-TP-BL (KTC1815)KEC KTC3198-TP-BL (KTC1815)KEC KTC3198-TP-BL (KTC1815)KEC KRC103M-TP (KRC1203) KEC			
		Q314 Q315	0TR126609AE 0TR126609AE	KTA1266-GR,TP(KTA1015),KEC KTA1266-GR,TP(KTA1015),KEC			

s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
		Q316	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC
		Q321	0TR103009AF	KRA103M-TP (KRA2203) KEC
		Q322	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q323	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC
		Q324	0TR126609AE	KTA1266-GR,TP(KTA1015),KEC
ŀ		Q325	0TR126609AE	KTA1266-GR,TP(KTA1015),KEC
		Q3A0	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC
		Q3A1	0TR319909AE	KTC3199-GR MINI TP KEC
		Q3A3	0TR319909AE	KTC3199-GR MINI TP KEC
		Q3A7	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC
		Q3A8	0TR126609AE	KTA1266-GR,TP(KTA1015),KEC
		Q3A9	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC
		Q3B1	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q3B2	0TR966009AA	KTA966A-Y=KTA1273Y TP KEC
		Q3B3	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q3B4	0TR103009AE	KRC103M-TP (KRC1203) KEC
	1	Q3B5	0TR103009AF	KRA103M-TP (KRA2203) KEC
		Q3B6	0TR103009AE	KRC103M-TP (KRC1203) KEC
1		Q3B7	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q3B8	0TR103009AE	KRC103M-TP (KRC1203) KEC
1		Q3B9	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q401	0TR126609AE	KTA1266-GR,TP(KTA1015),KEC
İ		Q402	0TR126609AE	KTA1266-GR,TP(KTA1015),KEC
		Q403	0TR103009AF	KRA103M-TP (KRA2203) KEC
		Q404	0TR320509AB	KTC3205-TP-Y (KTC2236A)KEC
		Q405	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q406	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q407	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q408	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q409	0TR320509AB	KTC3205-TP-Y (KTC2236A)KEC
1		Q410	0TR320509AB	KTC3205-TP-Y (KTC2236A)KEC
		Q411	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC
		Q420	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q4A1 Q4A2	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC KTC3198-TP-BL (KTC1815)KEC
		Q4A2 Q4K1	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC
		Q503	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q504	0TR223609AB	KTC2236A-Y=KTC3205Y TP KEC
		Q505	0TR205800AA	KTD2058-0 KEC
		Q506	0TR126609AE	KTA1266-GR,TP(KTA1015),KEC
		Q507	0TR126609AE	KTA1266-GR.TP(KTA1015),KEC
		Q508	0TR126609AE	KTA1266-GR,TP(KTA1015),KEC
		Q509	0TR126609AE	KTA1266-GR,TP(KTA1015),KEC
		Q510	0TR205800AA	KTD2058-0 KEC
		Q601	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC
		Q602	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC
		Q701	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC
1		Q702	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC
		Q708	0TR126609AE	KTA1266-GR,TP(KTA1015),KEC
1		Q709	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q801	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC
		Q802	0TR126609AE	KTA1266-GR,TP(KTA1015),KEC
		Q803	0TR126609AE	KTA1266-GR,TP(KTA1015),KEC
		Q804	0TR126609AE	KTA1266-GR,TP(KTA1015),KEC
		Q805	0TR126609AE	KTA1266-GR,TP(KTA1015),KEC
		Q806	0TR126609AE	KTA1266-GR,TP(KTA1015),KEC
1		Q807	0TR126609AE	KTA1266-GR,TP(KTA1015),KEC
		Q810	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q811	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q812	0TR126609AE	KTA1266-GR,TP(KTA1015),KEC
		Q813	CTR319809AC	KTC3198-TP-BL (KTC1815)KEC
		Q8A1	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC
_	1			1

									RUN DATE : 94.02.14
s	AL	LOCA NO	PART NO(GS)	SPECIFICATION	s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
	~L				-	-	ļ		
		Q8A2	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC			R209	0RD1203F608	120K 1/6W 5 TA26
		Q8A3	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC			R210	0RD1002F608	10K 1/6W 5 TA26
		Q8A4	0TR103009AE	KRC103M-TP (KRC1203) KEC			R211	0RD3302F608	33K 1/6W 5 TA26
		Q8A5	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC			R212	0RD1002F608	10K 1/6W 5 TA26
1		Q8A6	0TR126609AE	KTA1266-GR,TP(KTA1015),KEC			R213	0RD3901F608	3.9K 1/6W 5 TA26
		Q8A7	0TR126609AE	KTA1266-GR,TP(KTA1015),KEC			R214	0RD2703F608	270K 1/6W 5 TA26
		Q8A8	0TR103009AE	KRC103M-TP (KRC1203) KEC			R215	0RD6802F608	68K 1/6W 5 TA26
1 1		Q901	0TR126609AE	KTA1266-GR,TP(KTA1015),KEC	-		R216	0RD2702F608	27K 1/6W 5 TA26
		Q902	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC			R218	0RD6801F608	6.8K 1/6W 5 TA26
		Q903	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC			R219	0RD8203F608	820K 1/6W 5 TA26
		Q904	0TR103009AE	KRC103M-TP (KRC1203) KEC			R220	0RD5603F608	560K 1/6W 5 TA26
		Q905	0TR103009AE	KRC103M-TP (KRC1203) KEC			R221	0RD8201F608	8.2K 1/6W 5 TA26
1 1		Q906	0TR103009AE	KRC103M-TP (KRC1203) KEC			R222	0RD1501F608	1.5K 1/6W 5 TA26
		4300	VIIIIOOOOOAL	1410100111 (14101200) 1420			R223	0RD2701F608	2.7K 1/6W 5 TA26
1			RES	SISTOR		1	R224	0RD6803F608	680K 1/6W 5 TA26
1			1120	701011			R225	0RD2702F608	27K 1/6W 5 TA26
П		R001	0RD0822F608	82 1/6W 5 TA26					
		R002	0RD0562F608	56 1/6W 5 TA26	1		R226	0RD4702F608	47K 1/6W 5 TA26
		R003	0RD0562F608	56 1/6W 5 TA26			R227	0RD4701F608	4.7K 1/6W 5 TA26
		1					R228	0RD1003F608	100K 1/6W 5 TA26
		R005	0RD1001F608	1.0K 1/6W 5 TA26			R229	0RD1002F608	10K 1/6W 5 TA26
		R007	0RD1001F608	1.0K 1/6W 5 TA26 220 1/6W 5 TA26			R230	0RD2701F608	2.7K 1/6W 5 TA26
1 1		R008	0RD2200F608	,			R231	0AD3902F608	39K 1/6W 5 TA26 .
		R009	0RD2201F608	2.2K 1/6W 5 TA26			R232	0RD2201F608	2.2K 1/6W 5 TA26
		R010	0RD1201F608	1.2K 1/6W 5 TA26			R233	0RD1002F608	10K 1/6W 5 TA26
		R011	0RD6800F608	680 1/6W 5 TA26			R234	0RD0101F608	1.0 1/6W 5 TA26
		R012	0RD4704F608	4.7M 1/6W 5 TA26			R235	0RD0101F608	1.0 1/6W 5 TA26
		R028	0RD1002F608	10K 1/6W 5 TA26			R236	0RD8201F608	8.2K 1/6W 5 TA26
		R029	0RD3903F608	390K 1/6W 5 TA26			R237	0RD1003F608	100K 1/6W 5 TA26
		R030	0RD1002F608	10K 1/6W 5 TA26			R238	0RD8202F608	82K 1/6W 5 TA26
		R031	0RD1002F608	10K 1/6W 5 TA26			R239	0RD5602F608	56K 1/6W 5 TA26
		R032	0RD2200F608	220 1/6W 5 TA26			R240	0RD4702F608	47K 1/6W 5 TA26
1		R033	0RD2202F608	22K 1/6W 5 TA26			R241	0RD5601F608	5.6K 1/6W 5 TA26
		R034	0RD2202F608	22K 1/6W 5 TA26			R242	0RD4700F608	470 1/6W 5 TA26
		R035	0RD4700F608	470 1/6W 5 TA26			R243	0RD5601F608	5.6K 1/6W 5 TA26
		R036	0RD4700F608	470 1/6W 5 TA26			R244	0RD4700F608	470 1/6W 5 TA26
		R037	0RD6800F608	680 1/6W 5 TA26			R245	0RD1001F608	1.0K 1/6W 5 TA26
		R038	0RD2702F608	27K 1/6W 5 TA26		1	R246	0RD6803F608	680K 1/6W 5 TA26
		R039	0RD1202F608	12K 1/6W 5 TA26			R247	0RD1202F608	12K 1/6W 5 TA26
1		R040	0RD1001F608	1.0K 1/6W 5 TA26			R248	0RD1001F608	1.0K 1/6W 5 TA26
		R041	0RD2201F608	2.2K 1/6W 5 TA26			R250	0RD6802F608	68K 1/6W 5 TA26
1		R042	0RD1001F608	1.0K 1/6W 5 TA26		1	R251	0RD6802F608	68K 1/6W 5 TA26
		ROAA	0RD2201F608	2.2K 1/6W 5 TA26		-	R253	0RD6802F608	68K 1/6W 5 TA26
1		R101	0RD1001F608	1.0K 1/6W 5 TA26			1		4.7K 1/6W 5 TA26
1		R102	0RD1001F608	1.0K 1/6W 5 TA26			R254	0RD4701F608 0RD4701F608	4.7K 1/6W 5 TA26
	1	R103	0RD5601F608	5.6K 1/6W 5 TA26			R255 R256	0RD4701F608	4.7K 1/6W 5 TA26
		R104	0RD1502F608	15K 1/6W 5 TA26			1	1	3.3K 1/6W 5 TA26
		R105	0RD1003F608	100K 1/6W 5 TA26			R258	0RD3301F608	
1		R106	0RD8201F608	8.2K 1/6W 5 TA26			R259	0RD2201F608	2.2K 1/6W 5 TA26
1		R107	0RD1002F608	10K 1/6W 5 TA26			R260	0RD1002F608	10K 1/6W 5 TA26
		R108	0RD2201F608	2.2K 1/6W 5 TA26			R261	0RD1002F608	10K 1/6W 5 TA26
		,	1	· ·			R262	0RD4701F608	4.7K 1/6W 5 TA26
		R109	0RD1001F608	1.0K 1/6W 5 TA26			R263	0RD4701F608	4.7K 1/6W 5 TA26
1		R112	0RD0101F608	1.0 1/6W 5 TA26			R264	0RD4701F608	4.7K 1/6W 5 TA26
		R113	0RD0101F608	1.0 1/6W 5 TA26			R265	0RD2702F608	27K 1/6W 5 TA26
1		R114	0RD5600F608	560 1/6W 5 TA26			R266	0RD2702F608	27K 1/6W 5 TA26
		R115	0RD2201F608	2.2K 1/6W 5 TA26			R267	0RD1003F608	100K 1/6W 5 TA26
1	1	R116	0RD4702F608	47K 1/6W 5 TA26			R268	0RD3302F608	33K 1/6W 5 TA26
		R201	0RD2201F608	2.2K 1/6W 5 TA26			R269	0RD3302F608	33K 1/6W 5 TA26
1		R203	0RD4701F608	4.7K 1/6W 5 TA26			R270	0RD4701F608	4.7K 1/6W 5 TA26
1	1	R204	0RD8202F608	82K 1/6W 5 TA26			R271	0RD4701F608	4.7K 1/6W 5 TA26
		R205	0RD6802F608	68K 1/6W 5 TA26		ļ	R272	0RD4701F608	4.7K 1/6W 5 TA26
1		R206	0RD1502F608	15K 1/6W 5 TA26			R273	0RD1002F608	10K 1/6W 5 TA26
		R207	0RD3301F608	3.3K 1/6W 5 TA26			R274	0RD4704F608	4.7M 1/6W 5 TA26
	L	R208	0RD1501F608	1.5K 1/6W 5 TA26	J L				

S AL DCCANO PART MOIGS SPECIFICATION S AL DCCANO PART MOIGS SPECIFICATION										RUN DATE : 94.02.14
R276 R291 GPL-0716968 A7x 18W 5 TA26 R351 R351 GPL-0716968 A7x 18W 5 TA26 R352 GPL-0716968 A7x 18W 5 TA26 R352 GPL-0716968 A7x 18W 5 TA26 R353 GPL-0716968 A7x 18W 5 TA26 R353 GPL-0716968 A7x 18W 5 TA26 R353 GPL-0716968 A7x 18W 5 TA26 R353 GPL-0716968 A7x 18W 5 TA26 R353 GPL-0716968 A7x 18W 5 TA26 R354 GPL-0716968 A7x 18W 5 TA26 R355 GPL-0716968 A7x 18W 5 TA26 R355 GPL-0716968 A7x 18W 5 TA26 R355 GPL-0716968 A7x 18W 5 TA26 R355 GPL-0716968 A7x 18W 5 TA26 R359 GPL-07169	s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION	S	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
R276 R291 GPL-0716968 A7x 18W 5 TA26 R351 R351 GPL-0716968 A7x 18W 5 TA26 R352 GPL-0716968 A7x 18W 5 TA26 R352 GPL-0716968 A7x 18W 5 TA26 R353 GPL-0716968 A7x 18W 5 TA26 R353 GPL-0716968 A7x 18W 5 TA26 R353 GPL-0716968 A7x 18W 5 TA26 R353 GPL-0716968 A7x 18W 5 TA26 R353 GPL-0716968 A7x 18W 5 TA26 R354 GPL-0716968 A7x 18W 5 TA26 R355 GPL-0716968 A7x 18W 5 TA26 R355 GPL-0716968 A7x 18W 5 TA26 R355 GPL-0716968 A7x 18W 5 TA26 R355 GPL-0716968 A7x 18W 5 TA26 R359 GPL-07169			B275	0BD1003E608	100K 1/6W 5 TA26			D340	00047045600	A TIV A ISSUE E TA CO
R290 ORD-071 FORD A TK I WW S T A28 R329 ORD-071 FORD A TK I WW S T A28 R329 ORD-071 FORD A TK I WW S T A28 R329 ORD-071 FORD A TK I WW S T A28 R325 ORD-071 FORD A TK I WW S T A28 R329 ORD-071 FOR										
R291 ORD-071F008 ATX 15W S TAZE R292 ORD-071F008 ATX 15W S TAZE R293 ORD-071F008 AX 15W S TAZE R294 ORD-071F008 AX 15W S TAZE R295 ORD-071F008 AX 15W S TAZE R296 ORD-071F008 AX 15W S TAZE R297 ORD-071F008 AX 15W S TAZE R298 ORD-071F008 BX 15W S TAZE R298 ORD-071F008 BX 15W S TAZE R299 ORD-071F008 BX 15W S TAZE R290 ORD-071F008 BX 15W S TAZE R291 ORD-071F008 BX 15W S TAZE R291 ORD-071F008 BX 15W S TAZE R291 ORD-071F008 BX 15W S TAZE R291 ORD-071F008 BX 15W S TAZE R291 ORD-071F008 BX 15W S TAZE R291 ORD-071F008 BX 15W S TAZE R291 ORD-071F008 BX 15W S TAZE R291 ORD-071F008 BX 15W S TAZE R292 ORD-071F008 BX 15W S TAZE R293 ORD-071F008 BX 15W S TAZE R294 ORD-071F008 BX 15W S TAZE R295 ORD-071F008 BX 15W S TAZE R296 ORD-071F008 BX 15W S TAZE R297 ORD-071F008 BX 15W S TAZE R298 ORD-071F008 BX 15W S TAZE R298 ORD-071F008 BX 15W S TAZE R298 ORD-071F008 BX 15W S TAZE R299 ORD-071F008 BX 15W S TAZE R299 ORD-071F008 BX 15W S TAZE R299 ORD-071F008 BX 15W S TAZE R291 ORD-071F008 BX 15W S TAZE R291 ORD-071F008 BX 15W S TAZE R291 ORD-071F008 BX 15W S TAZE R291 ORD-071F008 BX 15W S TAZE R291 ORD-071F008 BX 15W S TAZE R291 ORD-071F008 BX 15W S TAZE R291 ORD-071F008 BX 15W S TAZ										
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R298 ORD301F080 3.34 MW 5 TA26 R296 R296 R296 ORD201F080 271 MW 5 TA26 R296 R296 ORD201F080 271 MW 5 TA26 R397 ORD201F080 SK1 WW 5 TA26 R397 ORD201F080 SK1 WW 5 TA26 R397 ORD201F080 SK1 WW 5 TA26 R397 ORD201F080 SK1 WW 5 TA26 R398 ORD1002F080										
R294 ORD1001F080	1				1					
R295 GRD2/07/ER08 Z7X (19W 5 TA28 R395 GRD100F698 GRD100F6										
R286 GRD101F808 1.0K 19W 5 TA28 R389 GRD100F808 1.0K 19W 5 TA28 R281 GRD101F808 1.2K 19W 5 TA28 R381 GRD101F808 1.2K 19W 5 TA28 R381 GRD101F808 1.2K 19W 5 TA28 R381 GRD101F808 1.2K 19W 5 TA28 R381 GRD101F808 1.2K 19W 5 TA28 R381 GRD101F808 1.2K 19W 5 TA28 R381 GRD101F808 1.2K 19W 5 TA28 R381 GRD101F808 1.2K 19W 5 TA28 R381 GRD101F808 1.2K 19W 5 TA28 R381 GRD101F808 1.2K 19W 5 TA28 R381 GRD101F808 1.2K 19W 5 TA28 R381 GRD101F808 1.2K 19W 5 TA28 R381 GRD101F808 1.2K 19W 5 TA28 R381 GRD101F808 1.2K 19W 5 TA28 R381 GRD101F808 1.2K 19W 5 TA28 R381 GRD101F808 1.2K 19W 5 TA28 R381 GRD101F808 1.2K 19W 5 TA28 R382 GRD101F808 1.2K 19W 5 TA28 R381										
R287 GR0203F608 220K 18W 5 TA28 R380 GR01005F608 R361 GR01005F608 R362 GR										
R284 R284 R284 R285 R286										
R2A1										-
R2A2										
R281 ORDIOQEFORD 10K, I JBW 5 TA26 R385 ORDIOQEFORD 12K, I JBW 5 TA26 R385 ORDIOQEFORD 12K, I JBW 5 TA26 R386 ORDIOQEFORD 12K, I JBW 5 TA26 R386 ORDIOQEFORD 12K, I JBW 5 TA26 R386 ORDIOQEFORD 12K, I JBW 5 TA26 R386 ORDIOQEFORD 12K, I JBW 5 TA26 R386 ORDIOQEFORD 12K, I JBW 5 TA26 R386 ORDIOQEFORD 12K, I JBW 5 TA26 R386 ORDIOQEFORD 12K, I JBW 5 TA26 R386 ORDIOQEFORD 12K, I JBW 5 TA26 R386 ORDIOQEFORD 12K, I JBW 5 TA26 R387 ORDIOQEFORD 12K, I JBW 5 TA26 R388 ORDIOQEFORD 12K, I JBW 5 TA26 R388 ORDIOQEFORD 12K, I JBW 5 TA26 R388 ORDIOQEFORD 12K, I JBW 5 TA26 R388 ORDIOQEFORD 12K, I JBW 5 TA26 R388 ORDIOQEFORD 12K, I JBW 5 TA26 R388 ORDIOQEFORD 12K, I JBW 5 TA26 R388 ORDIOQEFORD 12K, I JBW 5 T										
R282	1									
R2M2 ORD										
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R304							1			
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R306									*	
R307										l '
R308									0RD5601F608	5.6K 1/6W 5 TA26
R300			1					R373	0RD0272F608	27 1/6W 5 TA26
R310								R374	0RD2201F608	2.2K 1/6W 5 TA26
R311	1 1						İ		0RD1503F608	150K 1/6W 5 TA26
R312								R376	0RD1001F608	1.0K 1/6W 5 TA26
R313		- 1			1 1 1			R377	0RD2202F608	22K 1/6W 5 TA26
R314	1 1		1					R378	0RD1001F608	1.0K 1/6W 5 TA26
R315			- (R399	0RD8200F608	820 1/6W 5 TA26
R316								R3A0	0RD1502F608	15K 1/6W 5 TA26
R317								R3A1	0RD1202F608	12K 1/6W 5 TA26
R318			1					R3A2	0RD1002F608	10K 1/6W 5 TA26
R319						ı	ł	R3A3	0RD5600F608	560 1/6W 5 TA26
R320								R3A4	0RD2700F608	270 1/6W 5 TA26
R321								R3A5	0RD4701F608	4.7K 1/6W 5 TA26
R322								R3A6	0RD5600F608	
H322		- 1	3				- 1	R3A7	0RD2201F608	2.2K 1/6W 5 TA26
H323		- 1					- [R3A8	0RD1001F608	
H324	1 1	- 1	1					R3A9	0RD2702F608	
H325					,		- 1	R3B0	0RD6802F608	
H326							- 1	R3B1	0RD4700F608	
H32/ R328			1					R3B2	0RD1802F608	
H328		İ	R327	0RD2201F608	2.2K 1/6W 5 TA26			R3B3	0RD1802F608	
R329										
R330								R3B5		
R332										
R333								R3B7	0RD1001F608	
R334										
R335		İ			1.0K 1/6W 5 TA26			R3B9	0RD6802F608	
R336				0RD1001F608	1.0K 1/6W 5 TA26	- 1		R3C0	0RD2700F608	
R337			R336	0RD2702F608	27K 1/6W 5 TA26					
R338	- 1	ı		0RD1202F608	12K 1/6W 5 TA26					
R339	- 1		R338	0RD2201F608	2.2K 1/6W 5 TA26	- 1				
R340			R339	0RD3901F608	3.9K 1/6W 5 TA26		- 1			
R341			R340	0RD1001F608						
R342			R341	0RD1002F608			1			
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s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION	s	1	AL LOCA.N	O PART NO(GS)	SPECIFICATION
		R3D9	0RD6801F608	6.8K 1/6W 5 TA26			R430	0RD5601F608	5.6K 1/6W 5 TA26
		R3E0	0RD1002F608	10K 1/6W 5 TA26			R431	0RD0472F608	47 1/6W 5 TA26
		R3E1	0RD8200F608	820 1/6W 5 TA26	- 1	1	R432	0RD2702F608	27K 1/6W 5 TA26
		R3E2	0RD2700F608	270 1/6W 5 TA26			R433	0RD0102F608	10 1/6W 5 TA26
		R3E3	0RD3301F608	3.3K 1/6W 5 TA26			R434	0RD5601F608	5.6K 1/6W 5 TA26
	1	R3E4	0RD1801F608	1.8K 1/6W 5 TA26			R435	0RD4700F608	470 1/6W 5 TA26
		R3E5	0RD4700F608	470 1/6W 5 TA26			R436	0RD0102F608	10 1/6W 5 TA26
		R3E6	0RD4700F608	470 1/6W 5 TA26			R437	0RD1003F608	100K 1/6W 5 TA26
		R3E7	0RD1200F608	120 1/6W 5 TA26			R438	0RD6802F608	68K 1/6W 5 TA26
1		R3E8	0RD5600F608	560 1/6W 5 TA26	1		R450	0RD4700F608	470 1/6W 5 TA26
1		R3E9	0RD1002F608	10K 1/6W 5 TA26	-		R451	0RD2203F608	220K 1/6W 5 TA26
		R3F1	0RD3302F608	33K 1/6W 5 TA26			R452	0RD1802F608	18K 1/6W 5 TA26 560 1/6W 5 TA26
		R3F2 R3F3	0RD4701F608	4.7K 1/6W 5 TA26	-		R453 R4A0	0RD5600F608 0RD3302F608	33K 1/6W 5 TA26
		R3F4	0RD1003F608	100K 1/6W 5 TA26	1		R4A1	0RD3302F608	33K 1/6W 5 TA26
1		R3F5	0RD2201F608 0RD2203F608	2.2K 1/6W 5 TA26 220K 1/6W 5 TA26			R4A2	0RD1802F608	18K 1/6W 5 TA26
		R3F6	0RD4703F608	470K 1/6W 5 TA26	-		R4A3	0RD8200F608	820 1/6W 5 TA26
		R3F7	0RD1003F608	100K 1/6W 5 TA26			R4A4	0RD4700F608	470 1/6W 5 TA26
		R3F8	0RD1003F608	100K 1/6W 5 TA26			R4A5	0RD4700F608	470 1/6W 5 TA26
		R3F9	0RD2202F608	22K 1/6W 5 TA26			R4A6	0RD1001F608	1.0K 1/6W 5 TA26
		R3G1	0RD2201F608	2.2K 1/6W 5 TA26		-	R4A7	0RD1001F608	1.0K 1/6W 5 TA26
		R3G2	0RD2201F608	2.2K 1/6W 5 TA26			R4A8	0RD6801F608	6.8K 1/6W 5 TA26
		R3G3	0RD4701F608	4.7K 1/6W 5 TA26	1		R4A9	0RD1001F608	1.0K 1/6W 5 TA26
		R3H1	0RD1002F608	10K 1/6W 5 TA26			R4B1	0RD1002F608	10K 1/6W 5 TA26
		R3H2	0RD1002F608	10K 1/6W 5 TA26			R4B2	0RD1002F608	10K 1/6W 5 TA26
		R3J0	0RD1001F608	1.0K 1/6W 5 TA26			R4B3	0RD5601F608	5.6K 1/6W 5 TA26
		R3J1	0RD3301F608	3.3K 1/6W 5 TA26			R4B4	0RD5601F608	5.6K 1/6W 5 TA26
1		R3J6	0RD2201F608	2.2K 1/6W 5 TA26			R4B6	0RD2202F608	22K 1/6W 5 TA26
		R3J7	0RD0101F608	1.0 1/6W 5 TA26			R4B7	0RD1504F608	1.5M 1/6W 5 TA26
		R3J8	0RD1002F608	10K 1/6W 5 TA26			R4K0	0RD4701F608	4.7K 1/6W 5 TA26
		R3J9	0RD1002F608	10K 1/6W 5 TA26			R4K1	0RD4701F608	4.7K 1/6W 5 TA26
		R3K1	0RD4701F608	4.7K 1/6W 5 TA26	1		R4K2	0RD6800F608	680 1/6W 5 TA26
		R3X1	0RD1002F608	10K 1/6W 5 TA26			R4K3	0RD6800F608	680 1/6W 5 TA26
		R3X2	0RD5600F608	560 1/6W 5 TA26			R4K4	0RD3302F608	33K 1/6W 5 TA26
		R401 R402	0RD1001F608 0RD1001F608	1.0K 1/6W 5 TA26 1.0K 1/6W 5 TA26	-		R4K5 R4K6	0RD2202F608 0RD1004F608	22K 1/6W 5 TA26 1.0M 1/6W 5 TA26
		R403	0RD1801F608	1.8K 1/6W 5 TA26	- 1		R4K7	0RD4701F608	4.7K 1/6W 5 TA26
		R404	0RD1501F608	1.5K 1/6W 5 TA26			R4K8	0RD4701F608	4.7K 1/6W 5 TA26
		R405	0RD1501F608	1.5K 1/6W 5 TA26			R4K9	0RD4701F608	4.7K 1/6W 5 TA26
		R406	0RD1801F608	1.8K 1/6W 5 TA26			R4L0	0RD4703F608	470K 1/6W 5 TA26
		R408	0RD1802F608	18K 1/6W 5 TA26			R4L1	0RD4701F608	4.7K 1/6W 5 TA26
		R409	0RD8201F608	8.2K 1/6W 5 TA26			R4L2	0RD1202F608	12K 1/6W 5 TA26
		R410	0RD1001F608	1.0K 1/6W 5 TA26			R4L3	0RD3301F608	3.3K 1/6W 5 TA26
		R411	0RD1004F608	1.0M 1/6W 5 TA26			R4L4	0RD2202F608	22K 1/6W 5 TA26
		R412	0RD8201F608	8.2K 1/6W 5 TA26	-		R4L5	0RD1003F608	100K 1/6W 5 TA26
-		R413	0RD1202F608	12K 1/6W 5 TA26		-	R4L6	0RD2202F608	22K 1/6W 5 TA26
1		R414	0RD3303F608	330K 1/6W 5 TA26			R4L7	0RD4701F608	4.7K 1/6W 5 TA26
		R415	0RD1500F608	150 1/6W 5 TA26			R4L8	0RD2202F608	22K 1/6W 5 TA26
		R416	0RD1000F608	100 1/6W 5 TA26			R4L9	0RD2201F608	2.2K 1/6W 5 TA26
		R417	0RD0562F608	56 1/6W 5 TA26	- 1		R4M1	0RD8203F608	820K 1/6W 5 TA26
		R418	0RD1802F608	18K 1/6W 5 TA26	- 1		R4M2	0RD6803F608	680K 1/6W 5 TA26
	1	R419	0RD2701F608	2.7K 1/6W 5 TA26	- 1		R4P2	0RD1001F608	1.0K 1/6W 5 TA26
		R420 R421	0RD5601F608 0RD1003F608	5.6K 1/6W 5 TA26	1		R4P3	0RD0562F608	56 1/6W 5 TA26
		R422	0RD2702F608	100K 1/6W 5 TA26 27K 1/6W 5 TA26			R4P4 R501	0RD1001F608 0RD4701F608	1.0K 1/6W 5 TA26 4.7K 1/6W 5 TA26
		R423	0RD1002F608	10K 1/6W 5 TA26			R502	0RD1002F608	10K 1/6W 5 TA26
1		R424	0RD4702F608	47K 1/6W 5 TA26			R503	0RD1002F608	10K 1/6W 5 TA26
		R425	0RD4702F608	47K 1/6W 5 TA26			R504	0RD1003F608	100K 1/6W 5 TA26
		R426	0RD6801F608	6.8K 1/6W 5 TA26			R505	0RD1003F608	100K 1/6W 5 TA26
		R427	0RD0472F608	47 1/6W 5 TA26	1		R506	0RD1003F608	100K 1/6W 5 TA26
		F1428	0RD2702F608	27K 1/6W 5 TA26			R507	0RD1003F608	100K 1/6W 5 TA26
1		R429	0RD0102F608	10 1/6W 5 TA26			R508	0RD1003F608	100K 1/6W 5 TA26
		L	1		1	-			

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s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION	s	A	LOCANO	PART NO(GS)	SPECIFICATION
		LOOMING	TAITI NO(GO)	or Low to Artion		1	E LOOK.NO	TAIT NO(US)	SPECIFICATION
1	1	R509	0RD1003F608	100K 1/6W 5 TA26			R582	0RD1002F608	10K 1/6W 5 TA26
1		R510	0RD1003F608	100K 1/6W 5 TA26					
ı							R583	0RD1002F608	10K 1/6W 5 TA26
		R511	0RD1003F608	100K 1/6W 5 TA26	- 1		R584	0RD1002F608	10K 1/6W 5 TA26
		R512	0RD1003F608	100K 1/6W 5 TA26	ı		R585	0RD4700F608	470 1/6W 5 TA26
1		R513	0RD1003F608	100K 1/6W 5 TA26			R586	0RD4701F608	4.7K 1/6W 5 TA26
		R514	0RD1003F608	100K 1/6W 5 TA26		1	R587	0RD1002F608	10K 1/6W 5 TA26
1		R515	0RD1003F608	100K 1/6W 5 TA26			R588	0RD2702F608	27K 1/6W 5 TA26
		R516	0RD1003F608	100K 1/6W 5 TA26			R589	0RD2702F608	27K 1/6W 5 TA26
			0RD1003F608						
1		R517		100K 1/6W 5 TA26	- 1		R590	0RD2702F608	27K 1/6W 5 TA26
1		R518	0RD1003F608	100K 1/6W 5 TA26			R5A1	0RD4702F608	47K 1/6W 5 TA26
1	1	R520	0RD1800F608	180 1/6W 5 TA26			R5A2	0RD1503F608	150K 1/6W 5 TA26
		R521	0RD1800F608	180 1/6W 5 TA26			R5A3	0RD1503F608	150K 1/6W 5 TA26
1		R522	0RD1800F608	180 1/6W 5 TA26			R5A4	0RD4702F608	47K 1/6W 5 TA26
1	1	R523	0RD4702F608	47K 1/6W 5 TA26			R5A6	0RD1002F608	10K 1/6W 5 TA26
1		R524	0RD4701F608	4.7K 1/6W 5 TA26			1		
1							R601	0RD3300F608	330 1/6W 5 TA26
1		R525	0RD4701F608	4.7K 1/6W 5 TA26			R602	0RD3900F608	390 1/6W 5 TA26
1		R526	0RD4701F608	4.7K 1/6W 5 TA26			R603	0RD4700F608	470 1/6W 5 TA26
		R527	0RD4701F608	4.7K 1/6W 5 TA26			R604	0RD6800F608	680 1/6W 5 TA26
		R528	0RD1002F608	10K 1/6W 5 TA26			R605	0RD1001F608	1.0K 1/6W 5 TA26
1		R529	0RD4701F608	4.7K 1/6W 5 TA26			R606	0RD1501F608	1.5K 1/6W 5 TA26
		R530	0RD4701F608	4.7K 1/6W 5 TA26			R607		
							1	0RD2201F608	2.2K 1/6W 5 TA26
1		R531	0RD1002F608	10K 1/6W 5 TA26			R609	0RD1200F608	120 1/6W 5 TA26 .
		R532	0RD1002F608	10K 1/6W 5 TA26			R610	0RD1002F608	10K 1/6W 5 TA26
1		R535	0RD1802F608	18K 1/6W 5 TA26			R611	0RD0752F608	75 1/6W 5 TA26
1		R536	0RD1802F608	18K 1/6W 5 TA26			R612	0RD3302F608	33K 1/6W 5 TA26
1		R537	0RD8203F608	820K 1/6W 5 TA26			R613	0RD0101F608	1.0 1/6W 5 TA26
i		R538	0RD8203F608	820K 1/6W 5 TA26			R614	0RD0101F608	1.0 1/6W 5 TA26
1		R539	0RD1503F608	150K 1/6W 5 TA26					L
							R615	0RD4701F608	4.7K 1/6W 5 TA26
1		R540	0RD1503F608	150K 1/6W 5 TA26	- 1		R616	0RD4701F608	4.7K 1/6W 5 TA26
1		R541	0RD4701F608	4.7K 1/6W 5 TA26			R617	0RD4701F608	4.7K 1/6W 5 TA26
		R542	0RD1501F608	1.5K 1/6W 5 TA26			R621	0RD2200F608	220 1/6W 5 TA26
1		R551	0RD4700F608	470 1/6W 5 TA26			R622	0RD5601F608	5.6K 1/6W 5 TA26
		R552	0RD1002F608	10K 1/6W 5 TA26		1	R623	0RD3301F608	3.3K 1/6W 5 TA26
1	İ	R553	0RD1002F608	10K 1/6W 5 TA26			R624	0RD2201F608	2.2K 1/6W 5 TA26
1		R554	0RD1002F608	10K 1/6W 5 TA26			1		
1							R625	0RD1501F608	1.5K 1/6W 5 TA26
1		R555	0RD1002F608	10K 1/6W 5 TA26	- 1		R626	0RD1001F608	1.0K 1/6W 5 TA26
1		R556	0RD1002F608	10K 1/6W 5 TA26			R627	0RD6800F608	680 1/6W 5 TA26
1		R557	0RD4701F608	4.7K 1/6W 5 TA26			R628	0RD4700F608	470 1/6W 5 TA26
		R558	0RD0221F608	2.2 1/6W 5 TA26			R629	0RD3900F608	390 1/6W 5 TA26
		R559	0RD0221F608	2.2 1/6W 5 TA26			R630	0RD3300F608	330 1/6W 5 TA26
1		R560	0RD0221F608	2.2 1/6W 5 TA26			R631	0RD2203F608	**********
1	1	R561	0RD1003F608	100K 1/6W 5 TA26					220K 1/6W 5 TA26
1	1						R633	0RD1001F608	1.0K 1/6W 5 TA26
1		R562	0RD5601F608	5.6K 1/6W 5 TA26			R634	0RD6802F608	68K 1/6W 5 TA26
1		R563	0RD6800F608	680 1/6W 5 TA26	1		R635	0RD2203F608	220K 1/6W 5 TA26
1		R564	0RD1004F608	1.0M 1/6W 5 TA26		1	R636	0RD2203F608	220K 1/6W 5 TA26
		R565	0RD1204F608	1.2M 1/6W 5 TA26			R637	0RD0471F608	4.7 1/6W 5 TA26
1	1	R566	0RD2202F608	22K 1/6W 5 TA26		1	R651	0RD1002F608	10K 1/6W 5 TA26
1		R567	0RD3301F608	3.3K 1/6W 5 TA26	-	1	R671	0RD1201F608	1.2K 1/6W 5 TA26
1		R568	0RD4701F608	4.7K 1/6W 5 TA26			1		
	1	R569					R701	0RD1000F608	100 1/6W 5 TA26
	1		0RD2201F608	2.2K 1/6W 5 TA26			R702	0RD6801F608	6.8K 1/6W 5 TA26
1	1	R570	0RD0101F608	1.0 1/6W 5 TA26			R703	0RD1201F608	1.2K 1/6W 5 TA26
1		R571	0RD0101F608	1.0 1/6W 5 TA26	1		R704	0RD3900F608	390 1/6W 5 TA26
		R572	0RD0101F608	1.0 1/6W 5 TA26	- 1		R705	0RD0682F608	68 1/6W 5 TA26
		R573	0RD0101F608	1.0 1/6W 5 TA26	-		R706	0RD2200F608	220 1/6W 5 TA26
1		R574	0RD1002F608	10K 1/6W 5 TA26			1		the state of the s
1		R575	0RD1002F608	10K 1/6W 5 TA26	-		R707	0RD3300F608	330 1/6W 5 TA26
					Ì		R708	0RD1201F608	1.2K 1/6W 5 TA26
1		R576	0RD3300F608	330 1/6W 5 TA26			R715	0RD2201F608	2.2K 1/6W 5 TA26
1		R577	0RD1002F608	10K 1/6W 5 TA26			R716	0RD3900F608	390 1/6W 5 TA26
1		R578	0RD2701F608	2.7K 1/6W 5 TA26			R717	0RD2201F608	2.2K 1/6W 5 TA26
		R579	0RD1003F608	100K 1/6W 5 TA26	- 1		R718	0RD1001F608	1.0K 1/6W 5 TA26
1		R580	0RD1002F608	10K 1/6W 5 TA26			R720	0RD1001F608	1.0K 1/6W 5 TA26
1		R581	0RD1002F608	10K 1/6W 5 TA26		1	R721	0RD1001F608	
				,,			11121	VID 1002F000	10K 1/6W 5 TA26
					_				

					1					RUN DATE : 94.02.14
s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION		S	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
	-	מסכם	00010000000	ADV AICHN E TAGE		_		R8A0	0RD3901F608	3.9K 1/6W 5 TA26
		R722 R724	0RD1802F608 0RD3300F608	18K 1/6W 5 TA26 330 1/6W 5 TA26				R8A1	0RD4701F608	4.7K 1/6W 5 TA26
			0RD5600F608	560 1/6W 5 TA26				R8A2	0RD4701F608	4.7K 1/6W 5 TA26
		R725 R726	0RD1002F608	10K 1/6W 5 TA26				R8A3	0RD4701F608	4.7K 1/6W 5 TA26
		1	0RD5601F608	5.6K 1/6W 5 TA26			ļ	R8A4	0RD0752F608	75 1/6W 5 TA26
		R727	0RD1201F608	1.2K 1/6W 5 TA26				R8A5	0RD1002F608	10K 1/6W 5 TA26
		R728		680 1/6W 5 TA26				R8A6	0RD2203F608	220K 1/6W 5 TA26
		R729	0RD6800F608 0RD5601F608	·				R8A7	0RD3900F608	390 1/6W 5 TA26
		R801		5.6K 1/6W 5 TA26 10K 1/6W 5 TA26				R8A8	0RD4703F608	470K 1/6W 5 TA26
		R802	0RD1002F608 0RD1002F608	10K 1/6W 5 TA26				R8A9	0RD2702F608	27K 1/6W 5 TA26
		R803 R804	0RD4701F608	4.7K 1/6W 5 TA26				R8B0	0RD1001F608	1.0K 1/6W 5 TA26
		R805	0RD4701F608	47K 1/6W 5 TA26	ı			R8B1	0RD3301F608	3.3K 1/6W 5 TA26
		R806	0RD2202F608	22K 1/6W 5 TA26				R8B2	0RD1801F608	1.8K 1/6W 5 TA26
		R807	0RD1201F608	1.2K 1/6W 5 TA26				R8B3	0RD0752F608	75 1/6W 5 TA26
		R808	0RD1201F608	1.2K 1/6W 5 TA26	1			R8B4	0RD4701F608	4.7K 1/6W 5 TA26
		R809	0RD1201F608	1.2K 1/6W 5 TA26	ı			R8B5	0RD1001F608	1.0K 1/6W 5 TA26
		R810	0RD3900F608	390 1/6W 5 TA26				R8B6	0RD4701F608	4.7K 1/6W 5 TA26
		R811	0RD0682F608	68 1/6W 5 TA26	1			R8B7	0RD1802F608	18K 1/6W 5 TA26
		R812	0RD0752F608	75 1/6W 5 TA26				R8B8	0RD1202F608	12K 1/6W 5 TA26
		R813	0RD1001F608	1.0K 1/6W 5 TA26				R8B9	0RD1001F608	1.0K 1/6W 5 TA26
1		R814	0RD1001F608	1.0K 1/6W 5 TA26				R8C1	0RD1001F608	1.0K 1/6W 5 TA26
		R815	0RD0752F608	75 1/6W 5 TA26				R8C5	0RD0822F608	82 1/6W 5 TA26
1		R816	0RD1001F608	1.0K 1/6W 5 TA26	1			R8C6	0RD1001F608	1.0K 1/6W 5 TA26
		R817	0RD1001F608	1.0K 1/6W 5 TA26	ı			R901	0RD0752F608	75 1/6W 5 TA26
		R818	0RD1003F608	100K 1/6W 5 TA26				R902	0RD0562F608	56 1/6W 5 TA26
1		R819	0RD6802F608	68K 1/6W 5 TA26				R903	0RD0752F608	75 1/6W 5 TA26
		R820	0RD3301F608	3.3K 1/6W 5 TA26				R904	0RD0752F608	75 1/6W 5 TA26
		R821	0RD1001F608	1.0K 1/6W 5 TA26	1			R905	0RD1502F608	15K 1/6W 5 TA26
		R822	0RD1003F608	100K 1/6W 5 TA26				R906	0RD1002F608	10K 1/6W 5 TA26
l		R823	0RD6802F608	68K 1/6W 5 TA26			ļ	R907	0RD5601F608	5.6K 1/6W 5 TA26
		R824	0RD3301F608	3.3K 1/6W 5 TA26				R908	0RD4703F608	470K 1/6W 5 TA26
		R825	0RD1001F608	1.0K 1/6W 5 TA26	ı			R909	0RD3903F608	390K 1/6W 5 TA26
		R826	0RD1001F608	1.0K 1/6W 5 TA26				R910	0RD1001F608	1.0K 1/6W 5 TA26
		R827	0RD3301F608	3.3K 1/6W 5 TA26	1			R911	0RD2201F608	2.2K 1/6W 5 TA26
		R828	0RD1003F608	100K 1/6W 5 TA26	1			R912	0RD2201F608	2.2K 1/6W 5 TA26
		R829	0RD6802F608	68K 1/6W 5 TA26	1			R913	0RD3900F608	390 1/6W 5 TA26
		R830	0RD1001F608	1.0K 1/6W 5 TA26	1			R914	0RD3900F608	390 1/6W 5 TA26
		R831	0RD3301F608	3.3K 1/6W 5 TA26	1			R915	0RD1201F608	1.2K 1/6W 5 TA26
		R832	0RD1003F608	100K 1/6W 5 TA26	1			R916	0RD5601F608	5.6K 1/6W 5 TA26
		R833	0RD6802F608	68K 1/6W 5 TA26	1			R917	0RD1201F608	1.2K 1/6W 5 TA26
1		R834	0RD0682F608	68 1/6W 5 TA26				R918	0RD1001F608	1.0K 1/6W 5 TA26
		R838	0RD3302F608	33K 1/6W 5 TA26				R919	0RD1001F608	1.0K 1/6W 5 TA26
1		R839	0RD1002F608	10K 1/6W 5 TA26				R920	0RD1800F608	180 1/6W 5 TA26
1		R840	0RD4701F608	4.7K 1/6W 5 TA26				R922	0RD1201F608	1.2K 1/6W 5 TA26
		R841	0RD4701F608	4.7K 1/6W 5 TA26				W287	0RD5601F608	5.6K 1/6W 5 TA26
		R842	0RD3900F608	390 1/6W 5 TA26				W652	0RD1001F608	1.0K 1/6W 5 TA26
	ĺ	F1843	0RD2201F608	2.2K 1/6W 5 TA26	1	\vdash		·	DE11000	L DECENTED
		R844	0RD1002F608	10K 1/6W 5 TA26					REMOCO	N RECEIVER
		R845	0RD6803F608	680K 1/6W 5 TA26		—	T	DIOCOA	CCC CCCD	DIO DECEMENTATA IL 44 5) 200
		R846	0RD3300F608	330 1/6W 5 TA26	1			R/C601	668-226B	R/C RECEIVER(KTC.H=11.5) 33G
		R847	0RD6802F608	68K 1/6W 5 TA26	1				90	CART
		R848	0RD3901F608	3.9K 1/6W 5 TA26	1	L			30	AIII
		R849	0RD4701F608	4.7K 1/6W 5 TA26				JK801	573-006C	RGB SOKET SR-21S3 21PIN (BK)
	1	R850	0RD4700F608	470 1/6W 5 TA26				JK802	573-006D	RGB (BLUE)
		R851	0RD1001F608	1.0K 1/6W 5 TA26		-	1	1		· · · · · · · · · · · · · · · · · · ·
		R852	0RD3300F608	330 1/6W 5 TA26					SW	/ITCH
		R853	0RD3300F608	330 1/6W 5 TA26		<u></u>	_	т	1	
1		R854	0RD3900F608	390 1/6W 5 TA26		1		SW601	556-219A	SKHV10910A (GS ALPS)
1		R855	0RD1203F608	120K 1/6W 5 TA26				SW602	556-219A	SKHV10910A (GS ALPS)
		R871	0RD0221F608	2.2 1/6W 5 TA26				SW603	556-219A	SKHV10910A (GS ALPS)
		R872	0RD0221F608	2.2 1/6W 5 TA26				SW604	556-219A	SKHV10910A (GS ALPS)
		R873	0RD1003F608	100K 1/6W 5 TA26				SW605	556-219A	SKHV10910A (GS ALPS)
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<u> </u>		. 22 () :	BART NO.	onFolFic (Fig.)
s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
		SW606	556-219A	SKHV10910A (GS ALPS)
		SW607	556-219A	SKHV10910A (GS ALPS)
		SW608	556-219A	SKHV10910A (GS ALPS)
		SW621	556-219A	SKHV10910A (GS ALPS)
		SW622	556-219A	SKHV10910A (GS ALPS)
		SW623	556-219A	SKHV10910A (GS ALPS)
		SW624 SW625	556-219A	SKHV10910A (GS ALPS)
		SW626	556-219A 556-219A	SKHV10910A (GS ALPS)
		SW627	556-219A	SKHV10910A (GS ALPS)
		SW628	556-219A	SKHV10910A (GS ALPS) SKHV10910A (GS ALPS)
		SW629	556-219A	SKHV10910A (GS ALPS)
		SW630	556-219A	SKHV10910A (GS ALPS)
			TU	INER
,	Ī	TU701	521-402A	ENV-57862G3 FS/PLL HYPER MATS
	L	10/01		
_		·····	VARIABLE	E RESISTOR
		VR201	613-032U	RH0638C15R0WA (100K)
		VR301	613-032N	RH0638C14R14A (10K)
		VR302	613-032G	RH0638C13R0VA (1K)
		VR303	613-032N	RH0638C14R14A (10K)
		VR304	613-032L	RH0638CS3R0WA (4.7K)
	1	VR305	613-032Q	RH0638CJ4R0WA (22K)
		VR3A1	613-032U	RH0638C15R0WA (100K)
		VR401	613-032W	RH0638CJ5R (220K)
		VR4A1	613-032N	RH0638C14R14A (10K)
		VR4A2	613-032N	RH0638C14R14A (10K)
		VR501	613-032N	RH0638C14R14A (10K)
_		VR701	613-032Q	RH0638CJ4R0WA (22K)
			CRY	/STAL
		X202	529-001D	32.768KHZ(2X6) SEIKO
		X301	529-020P	4.433619MHZ 15PPM GRAY L=4.0
	OR	X301	529-027P	4.433619MHZ 15PPM KSS
l		X3A1	529-022F	4.433619M 30PPM CL=16P DL=1M
	l	X4K1	529-022E	11.71875 30PPM CL=10P DL=1M
		X501	529-020R	12.000000MHZ 30PPM NO-TU L=4.0
		X801	529-019A	CSB500F-9 MURATA
_		X8A1	529-022H	17.734476MHZ CL=16P 20PPM 4.0
			RESC	NATOR
		X201	618-017A	FCR6.0MCT2 TDK-J(TAPING)
		,	ZENE	R DIODE
		ZD101	0DZ330009AF	MTZ33B,TP,ROHM-K
		ZD102	0DZ270009CA	MTZ27C TP ROHM-KOREA
		ZD103	0DZ560009CA	MTZ5.6B TP ROHM-K
		ZD201	0DZ820009AA	MTZ8.2B TP ROHM-K
		ZD301	0DZ100009AA	MTZ10B MINITP ROHM-K
		ZD401	0DZ100009AA	MTZ10B MINITP ROHM-K
		ZD501	0DZ620009AA	MTZ6.2B (TA)
		ZD601	0DZ560009CA	MTZ5.6B TP ROHM-K
		ZD602	0DZ560009CA	MTZ5.6B TP ROHM-K
		ZD603	0DZ560009CA	MTZ5.6B TP ROHM-K
		ZD605	0DZ560009CA	MTZ5.6B TP ROHM-K
		ZD606 ZD607	0DZ560009CA 0DZ560009CA	MTZ5.6B TP ROHM-K
		ZD607 ZD608	0DZ560009CA	MTZ5.6B TP ROHM-K
	l l	70000 I	ADEDOODORCH	MTZ5.6B TP ROHM-K

s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
		ZD801 ZD802 ZD803 ZD804	0DZ130009AC 0DZ130009AC 0DZ130009AC 0DZ130009AC	MTZ13B TP ROHM-K MTZ13B TP ROHM-K MTZ13B TP ROHM-K MTZ13B TP ROHM-K